



STIC Search Report

EIC 1700

STIC Database Tracking Number: 138708

To: Hoa V Le
Location: Rem 9D61
Art Unit : 1752
September 29, 2004
Case Serial Number: 10/661119

From: John Calve
Location: CP 3/4; 3D62
Phone: 571-272-3519
John.Calve@uspto.gov

Search Notes

Hoa,

I didn't find the species chosen by the applicant. I have marked the 2 closest records to the selected species (GREEN tags). If you have any questions, please call me.

John

What is claimed is:

1. A photographic element comprising a light-sensitive silver halide emulsion layer containing a 1H-pyrazolo[1,5-b][1,2,4]triazole containing in the 6-position a fully substituted methyl group, in the 7-position a hydrogen atom or halogen atom, and in the 2-position a phenyl group substituted in the meta position with a sulphonamide group free of amide, sulfonamide, ureido or ester groups and bearing at least 9 (cyclo)aliphatic carbon atoms.

2. The element of claim 1 wherein the sulphonamide group contains an unsubstituted alkyl group.

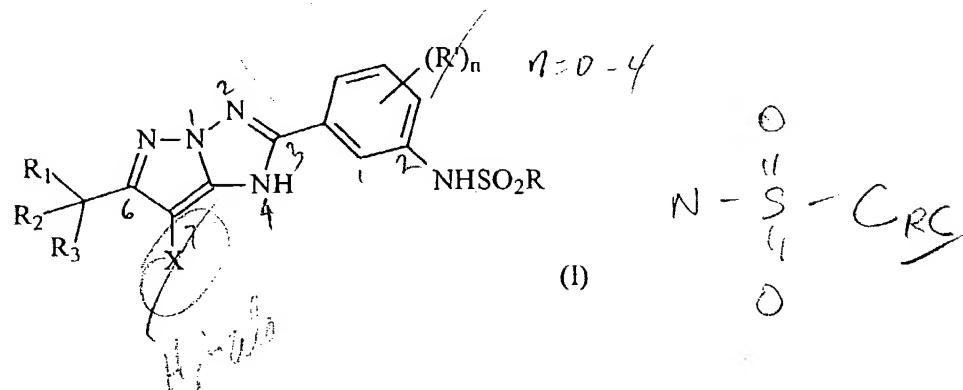
3. The element of claim 1 wherein the sulphonamide group contains an alkyl group substituted with an ether group.

4. The element of claim 1 containing a chloro in the 7-position.

5. The element of claim 1 wherein R₁, R₂, and R₃ are methyl groups.

6. The element of claim 1 wherein the coupler does not have a melting point of 140°C or higher.

7. The element of claim 1 wherein the coupler is represented by structure (I):



wherein

Van Le

10/661,119

09/29/2004

=> D HIS

(FILE 'HOME' ENTERED AT 08:37:37 ON 29 SEP 2004)

FILE 'HCA' ENTERED AT 08:37:42 ON 29 SEP 2004

L1 1326 S CRAWLEY ?/AU
L2 79 S ROMANET ?/AU
L3 35729 S FISCHER ?/AU
L4 88 S L3 AND L1
L5 0 S L2 AND L4
L6 18 S (L2 OR L4) AND PHOTOGRAPH?
L7 16 S L6 AND ?AZOLE?

FILE 'LREGISTRY' ENTERED AT 08:40:02 ON 29 SEP 2004

L8 STR

FILE 'REGISTRY' ENTERED AT 08:43:34 ON 29 SEP 2004

L9 50 S L8

FILE 'LREGISTRY' ENTERED AT 08:44:29 ON 29 SEP 2004

FILE 'REGISTRY' ENTERED AT 08:46:18 ON 29 SEP 2004

L10 1294 S L8 FULL
SAVE L10 VANLE119/A

FILE 'LREGISTRY' ENTERED AT 08:46:51 ON 29 SEP 2004

L11 STR L8

FILE 'REGISTRY' ENTERED AT 08:59:56 ON 29 SEP 2004

L12 3 S L11 SSS-SAM - SUB=L10
L13 39 S L11 SSS FULL SUB=L10
SAVE L13 VANLE119/A/A

FILE 'HCA' ENTERED AT 09:01:56 ON 29 SEP 2004

L14 38 S L13
L15 38 S L14 AND 1907-2003/PY,PRY
L16 0 S L7 AND L15
L17 326915 S ?AZOLE?
L18 318779 S PHOTOGRAPH? OR PHOTOCHEM? OR PHOTO(W) CHEM?
L19 32 S L15 AND L17
L20 31 S L19 AND L18
L21 31 S L20 AND COUPL?

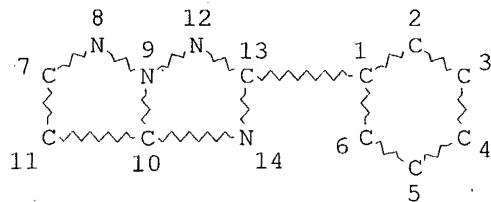
FILE 'LCA' ENTERED AT 09:05:04 ON 29 SEP 2004

FILE 'HCA' ENTERED AT 09:06:44 ON 29 SEP 2004

L22 652 S L10
L23 38 S L15 AND L22
L24 38 S L23 OR L19 OR L20 OR L21

FILE 'REGISTRY' ENTERED AT 09:08:28 ON 29 SEP 2004

=> D QUE STAT L24
L8 STR



PARENT = 1294 structures

NODE ATTRIBUTES:

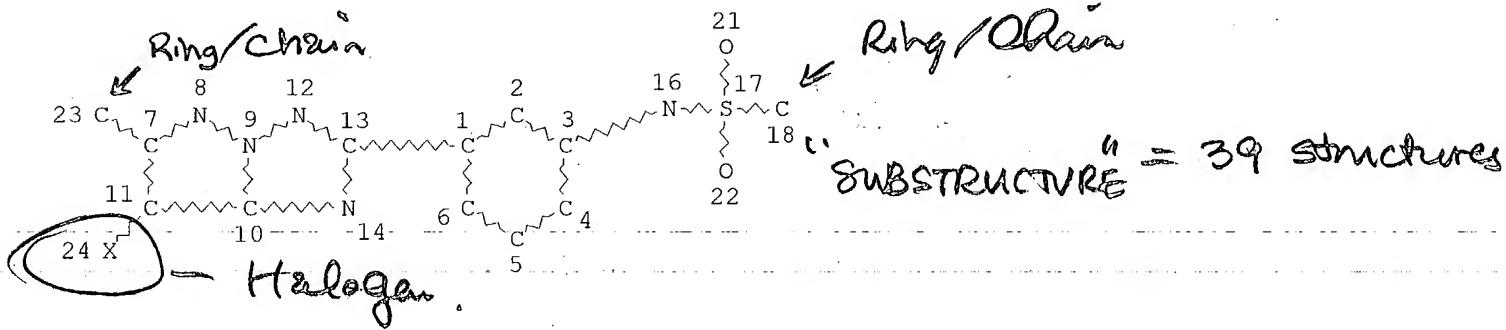
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L10 1294 SEA FILE=REGISTRY SSS FUL L8
L11 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 18
NSPEC IS RC AT 23
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 21

}

STEREO ATTRIBUTES: NONE

L13	39 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
L14	38 SEA FILE=HCA ABB=ON PLU=ON L13
L15	38 SEA FILE=HCA ABB=ON PLU=ON L14 AND 1907-2003/PY, PRY
L17	326915 SEA FILE=HCA ABB=ON PLU=ON ?AZOLE?
L18	318779 SEA FILE=HCA ABB=ON PLU=ON PHOTOGRAPH? OR PHOTOCHEM? OR PHOTO(W) CHEM?
L19	32 SEA FILE=HCA ABB=ON PLU=ON L15 AND L17
L20	31 SEA FILE=HCA ABB=ON PLU=ON L19 AND L18
L21	31 SEA FILE=HCA ABB=ON PLU=ON L20 AND COUPL?
L22	652 SEA FILE=HCA ABB=ON PLU=ON L10
L23	38 SEA FILE=HCA ABB=ON PLU=ON L15 AND L22
L24	38 SEA FILE=HCA ABB=ON PLU=ON L23 OR L19 OR L20 OR L21

=> FILE HCA

FILE 'HCA' ENTERED AT 09:09:18 ON 29 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 14

FILE LAST UPDATED: 23 Sep 2004 (20040923/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D L24 1-38 CBIB ABS HITIND HITSTR

L24 ANSWER ~~4-OF-38~~ HCA COPYRIGHT 2004 ACS on STN

138:262623 Silver halide color photographic material containing

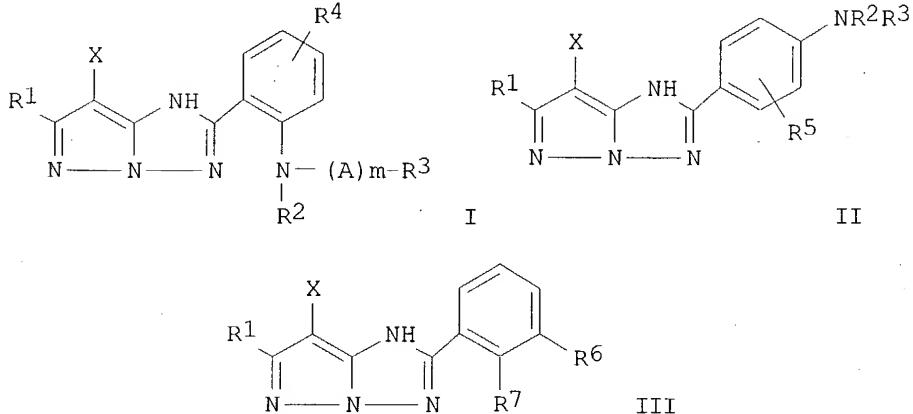
pyrazoloazole magenta coupler. Sugita, Shuichi; Sugino,

Motoaki (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 2003091058 A2

20030328, 24 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP

2001-284834 20010919.

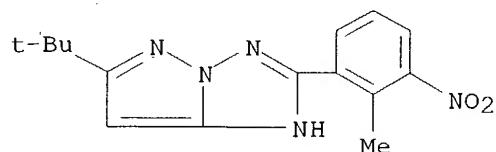
GI



AB The material has blue-green-, and red-sensitive emulsion layers on a support, in which ≥ 1 green-sensitive layer contains ≥ 1 pyrazoloazole magenta coupler I (R₁ = substituent; A = carbonyl, sulfonyl; n = 0, 1; R₂, R₃ = alkyl, aryl; R₂ and R₃ may form a ring; R₄ = H, substituent; X = halo), II (R₁ = substituent; R₂, R₃ =

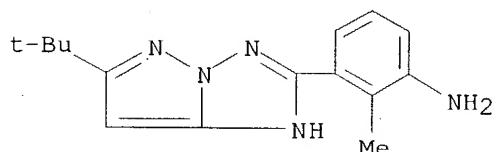
alkyl, aryl; R₂ and R₃ may form a ring; R₅ = H, substituent; X = halo), or III (R₁ = substituent; R₆ = substituent; R₇ = electron donative group; X = halo). It shows improved color reproduction quality and color development, providing a magenta image with improved lightfastness.

- IC ICM G03C007-38
IC S G03C007-392
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST pyrazolo azole magenta coupler photog film
IT Photographic films
(color; silver halide color photog. material containing pyrazoloazole magenta coupler and image stabilizer)
IT Magenta couplers
(silver halide color photog. material containing pyrazoloazole magenta coupler)
IT 85-60-9 82394-21-6
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(image stabilizer; silver halide color photog. material containing pyrazoloazole magenta coupler and image stabilizer)
IT 26577-59-3P 82560-12-1P 349092-99-5P 440348-93-6P 502693-92-7P
502693-93-8P 502693-95-0P 502693-96-1P 502693-99-4P 502694-02-2P
502694-06-6P 502694-07-7P 502694-10-2P 502694-12-4P
502694-13-5P 502694-14-6P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazoloazole photog. coupler)
IT 107-10-8, Propylamine, reactions 302-01-2, Hydrazine, reactions 1975-50-4 4405-28-1 4877-14-9, Tetradecyl isocyanate 59997-51-2, Pivaloylacetone nitrile
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyrazoloazole photog. coupler)
IT 502693-50-7P 502693-67-6P 502693-80-3P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(silver halide color photog. material containing pyrazoloazole magenta coupler)
IT 502693-55-2 502693-57-4 502693-60-9
502693-61-0 502693-65-4 502693-70-1
502693-72-3 502693-74-5 502693-76-7
502693-78-9 502693-82-5 502693-84-7
502693-85-8 502693-88-1
RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide color photog. material containing pyrazoloazole magenta coupler)
IT 502693-98-3P 502693-99-4P 502694-06-6P
502694-07-7P 502694-13-5P 502694-14-6P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazoloazole photog. coupler)
RN 502693-98-3 HCA
CN Benzenamine, 2-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-N,N-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



RN 502694-14-6 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)

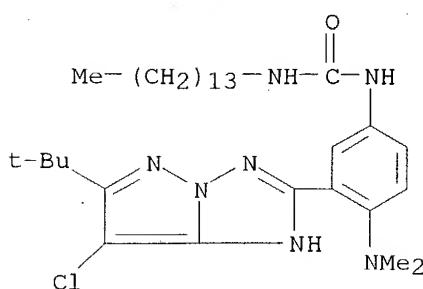


IT 502693-50-7P 502693-67-6P 502693-80-3P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (silver halide color photog. material containing
 pyrazoloazazole magenta coupler)

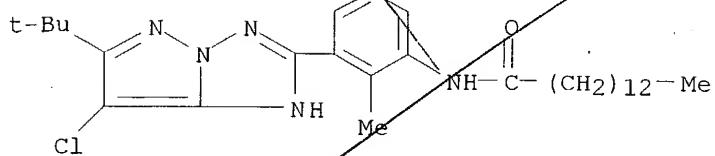
RN 502693-50-7 HCA

CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-4-(dimethylamino)phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



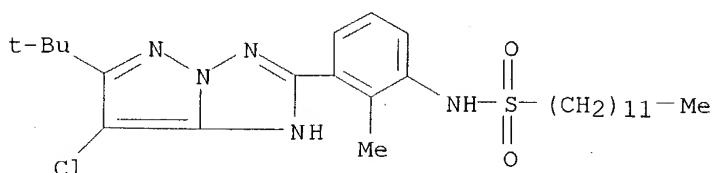
RN 502693-67-6 HCA

CN Urea, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(4-morpholinyl)phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



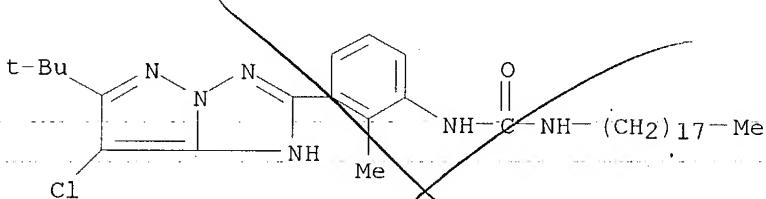
RN 502693-84-7 HCA

CN 1-Dodecanesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]- (9CI) (CA INDEX NAME)



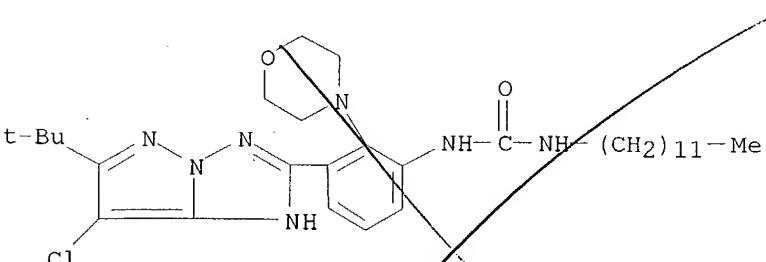
RN 502693-85-8 HCA

CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-N'-octadecyl- (9CI) (CA INDEX NAME)



RN 502693-88-1 HCA

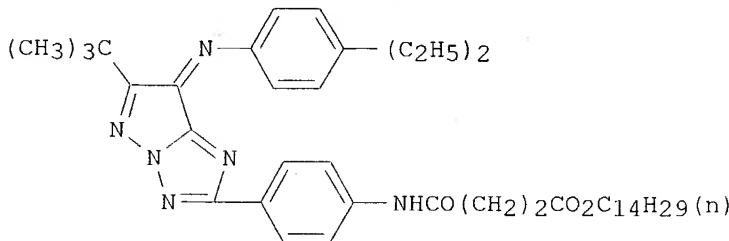
CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(4-morpholinyl)phenyl]-N'-dodecyl- (9CI) (CA INDEX NAME)



L24 ANSWER 2 OF 38 HCA COPYRIGHT 2004 ACS on STN

135:212295 Colorant particle dispersions for ink-jet inks and method of recording. Kimura, Keizo; Ishizuka, Takahiro; Yamada, Masato (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001240763 A2 20010904, 64 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-78491 20000321. PRIORITY: JP 1999-365187 19991222.

GI



AB The dispersions contain particles which comprise oil-soluble dyes of specific **phenyliminopyrozolotriazole** like compds. and oil-soluble polymers in an aqueous medium and have absorption maximum (λ_{max}) at 510-560 nm, absorbancy at $\lambda_{max}+75$ nm of <0.2 and absorbancy at $\lambda_{max}-75$ nm of <0.4 when assuming the absorbancy for λ_{max} as 1. Recording images using the inks have good light and water resistance. Thus, mixing i-PrOH 10 with an acrylic acid-Bu methacrylate-1H,1H,2H,2H-perfluorodecyl acrylate copolymer 9.1 and I (preparation given) 0.8 with a 2 mol/L aqueous solution of NaOH 2.3 parts, heating to 80°, adding 50 parts water and condensing to 20% solids content gave a colorant dispersion for use in an ink containing other ingredients.

IC ICM C09B067-46

ICS C09B067-46; B41J002-01; B41M005-00; C09B055-00; C09B067-02; C09D011-00

CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

ST ink jet ink recording **phenyliminopyrozolotriazole** deriv colorant dye

IT 358638-85-4P 358638-86-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; colorant particle dispersions for ink-jet inks and method of recording)

IT 292833-36-4P 358342-81-1P 358342-86-6P

358342-89-9P 358342-90-2P 358342-91-3P

358342-92-4P 358638-59-2P 358638-60-5P 358638-61-6P

358638-62-7P 358638-63-8P 358638-64-9P

358638-65-0P 358638-66-1P 358638-67-2P

358638-68-3P 358638-69-4P 358638-70-7P 358638-71-8P

358638-72-9P 358638-73-0P 358638-74-1P

358638-75-2P 358638-76-3P 358638-77-4P 358638-78-5P

358638-79-6P 358638-80-9P 358638-81-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(oil-soluble dyes; colorant particle dispersions for ink-jet inks and method of recording)

IT 128-08-5 25646-71-3 25646-77-9 155218-29-4 244763-66-4

358342-79-7 358342-80-0 358342-87-7 358638-82-1

358638-83-2 358638-84-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; colorant particle dispersions for ink-jet inks and method of

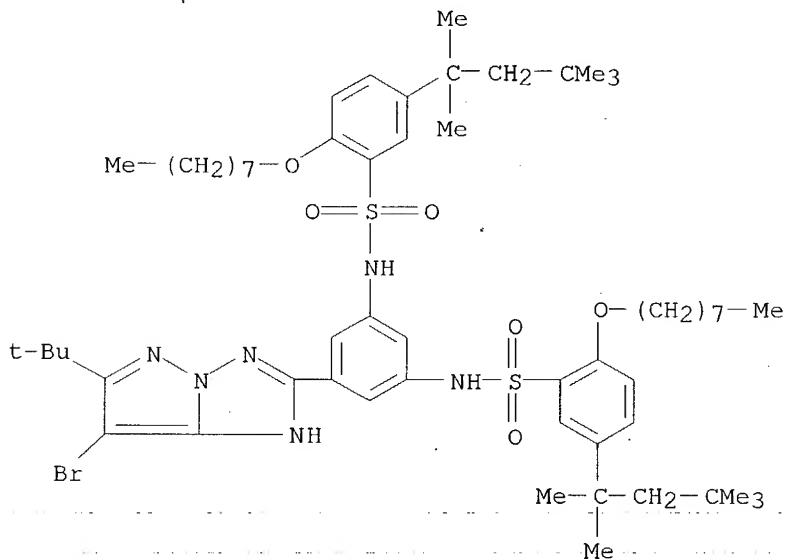
recording)

IT 358638-85-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; colorant particle dispersions for ink-jet inks and method of recording)

RN 358638-85-4 HCA

CN Benzenesulfonamide, N,N'-[5-[7-bromo-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-1,3-phenylene]bis[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



IT 292833-36-4P 358342-81-1P 358342-86-6P

358342-90-2P 358342-91-3P 358342-92-4P

358638-62-7P 358638-64-9P 358638-65-0P

358638-66-1P 358638-67-2P 358638-71-8P

358638-72-9P 358638-73-0P 358638-74-1P

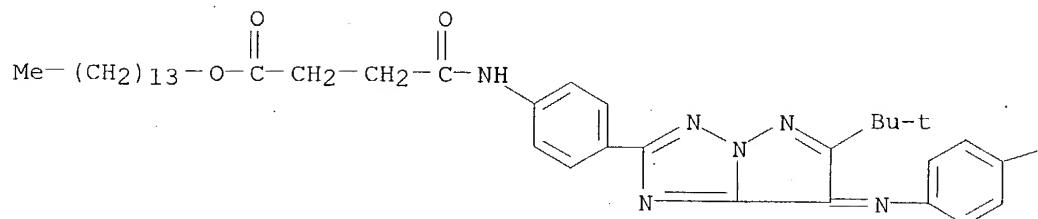
358638-76-3P 358638-78-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (oil-soluble dyes; colorant particle dispersions for ink-jet inks and method of recording)

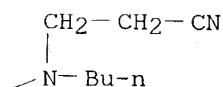
RN 292833-36-4 HCA

CN Butanoic acid, 4-[[4-[7-[[4-[butyl(2-cyanoethyl)amino]phenyl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



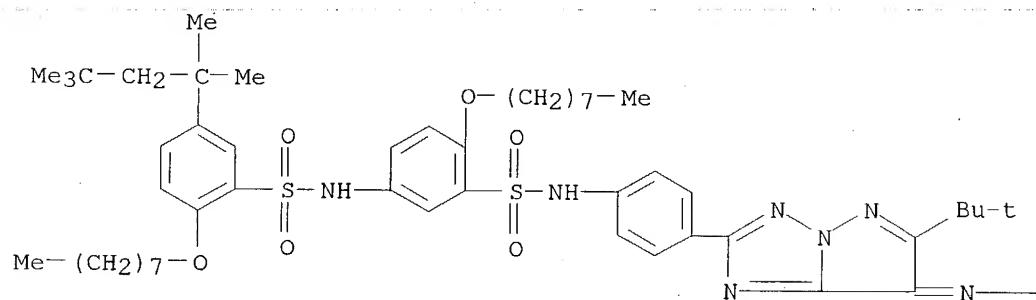
PAGE 1-B

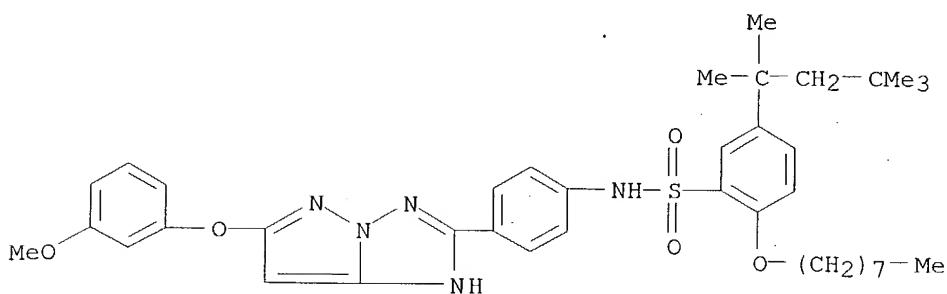


RN 358342-81-1 HCA

CN Benzenesulfonamide, N-[3-[[[4-[7-[[4-[bis(4-hydroxybutyl)amino]-2-(trifluoromethyl)phenyl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

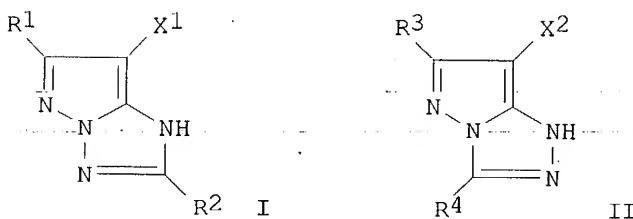
PAGE 1-A





L24 ANSWER 3 OF 38 HCA COPYRIGHT 2004 ACS on STN
 135:12037 Color **photography** and its materials containing
pyrazoloazole-type magenta couplers and showing
 excellent granularity. Fukuzawa, Hiroshi; Mikoshiba, Takashi; Shimura,
 Yoshio (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 2001147508 A2 20010529, 53 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1999-328261 19991118.

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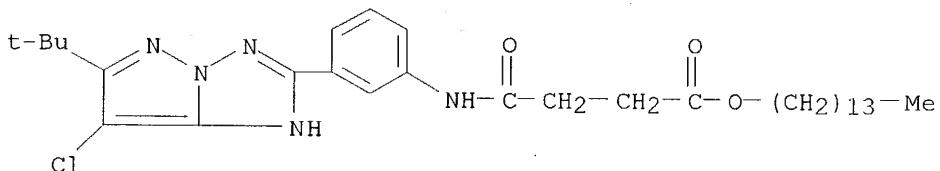
- AB The materials contain magenta **couplers** of (1-9):(1-9) (molar ratio) mixts. of I and II (or III) mixts. [R1-4 = H, substituents; R'3 = C5-20 secondary alkyl, C4-20 tertiary alkyl; X1, X2 = H, leaving groups upon **coupling** with oxidized developers]. The materials show good storage stability and provide images with stable quality even under development conditions with pH drift.
- IC ICM G03C007-38
 ICS G03C007-407
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41
- ST **pyrazolotriazole magenta coupler photog**
granularity; pH drift photog quality magenta coupler
- IT Magenta **couplers**
 (color photog. materials containing **pyrazoloazole-type magenta couplers** and showing excellent granularity)
- IT **Photography**
 (color; color photog. materials containing **pyrazoloazole-type magenta couplers** and showing excellent granularity)
- IT 110884-43-0 131169-88-5 342035-89-6 342035-90-9
 342035-91-0 342035-92-1 342035-93-2 342035-94-3

342035-95-4 342035-96-5 342035-97-6 342035-98-7 342035-99-8
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (magenta **couplers**; color photog. materials containing
 pyrazoloazole-type magenta **couplers** and showing
 excellent granularity)

IT 342035-89-6 342035-91-0
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or
 engineered material use); PROC (Process); USES (Uses)
 (magenta **couplers**; color photog. materials containing
 pyrazoloazole-type magenta **couplers** and showing
 excellent granularity)

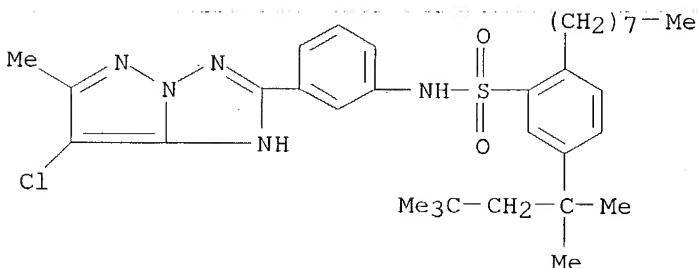
RN 342035-89-6 HCA

CN Butanoic acid, 4-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



RN 342035-91-0 HCA

CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-octyl-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



L24 ANSWER 4 OF 38 HCA COPYRIGHT 2004 ACS on STN

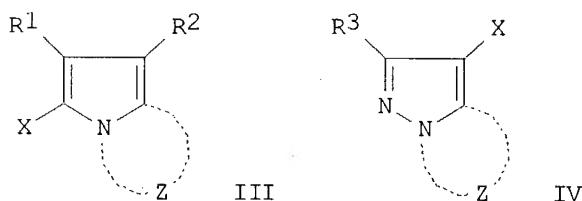
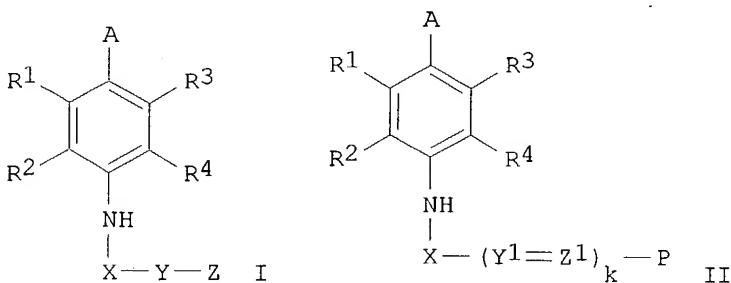
130:215812 Heat-developable silver halide photographic material.

Nakagawa, Hajime; Taguchi, Toshiki (Fuji Photo Film Co., Ltd., Japan).

Jpn. Kokai Tokkyo Koho JP 11038571 A2 19990212 Heisei, 120 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-209845 19970717.

GI



AB In the material having a photosensitive layer containing photosensitive Ag halide particles, developers, **couplers**, and binders, ≥ 1 of the developer is I or II ($R^{1-5} = H$, substituent; A = OH, substituted amino; X = CO, SO, SO₂, PO; Y = divalent linkage; Z = nucleophilic group capable of reacting with X when oxidized; Y¹, Z¹ = N, CR₅; P = proton or cation releasing group; k = 0 or integer) and ≥ 1 of the **coupler** is III or IV (Z = atoms to form **azole** ring which may be substituted or condensed; R¹, R² = electron-attracting group with Hammett's $\sigma_p \geq 0.30$; R³ = H, substituent; X = leaving group to be released by the **coupling** reaction with the oxidized developing agent). The material shows good developability and improved image sharpness.

IC ICM G03C008-40

ICS G03C008-40; G03C001-42; G03C007-392; G03C007-413

CC 7.4-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST heat developable **photog** developer aminophenol deriv; azole deriv **coupler** heat developable **photog**

IT **Photographic couplers**

(heat-developable **photog**. film containing aminophenol derivative developer and azole compound **coupler**)

IT **Photographic developers**

(heat-developable **photog**. film containing aniline derivative developer and azole compound **coupler**)

IT **Photographic films**

(heat-developable; heat-developable **photog**. film containing aniline derivative developer and azole compound **coupler**)

IT 209794-95-6P 213608-77-6P 220695-05-6P 220695-06-7P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(heat-developable **photog**. film containing aminophenol derivative developer and azole compound **coupler**)

IT 126512-93-4 130287-07-9 131169-88-5 138272-35-2

140859-64-9 142859-67-4 143151-76-2 151019-66-8

152828-03-0 154042-70-3 196105-60-9 210368-73-3

210368-74-4 213608-82-3 220694-94-0 220694-95-1 220694-96-2
 220694-97-3 220694-98-4 220694-99-5 220695-00-1 220695-01-2
 220695-02-3 220695-03-4 220695-04-5 220695-07-8 220695-08-9
 220695-09-0 220695-10-3 220695-11-4 220695-12-5 220695-13-6
 220695-14-7 220695-15-8 220695-16-9 220929-40-8

RL: TEM (Technical or engineered material use); USES (Uses)
 (heat-developable photog. film containing aminophenol derivative
 developer and azole compound coupler)

IT 152243-21-5P 189188-01-0P 189188-02-1P 209794-94-5P 209794-96-7P
 209794-97-8P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (preparation of aminophenol derivative photog. developer)

IT 81-08-3 111-92-2, Dibutylamine 112-96-9, Octadecyl isocyanate
 121-57-3 501-24-6 1694-92-4, 2-Nitrophenylsulfonyl chloride
 5930-28-9 7617-74-5 41755-73-1 74918-57-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aminophenol derivative photog. developer)

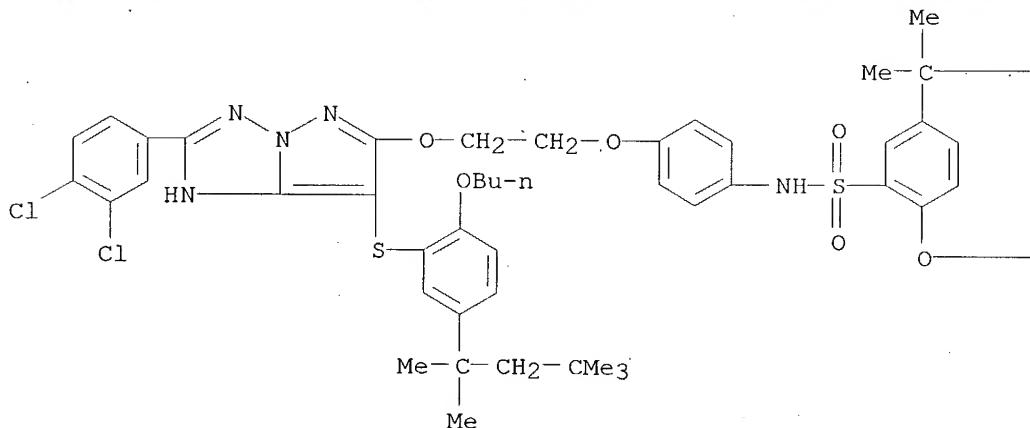
IT 126512-93-4 143151-76-2 152828-03-0

RL: TEM (Technical or engineered material use); USES (Uses)
 (heat-developable photog. film containing aminophenol derivative
 developer and azole compound coupler)

RN 126512-93-4 HCA

CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

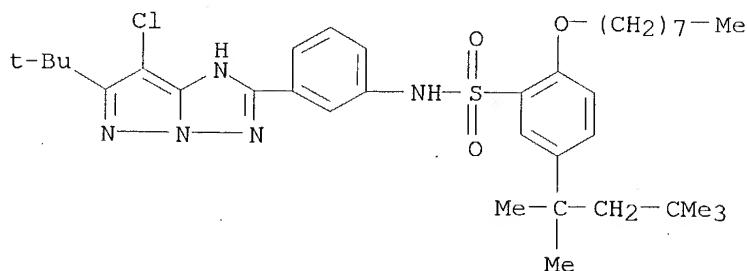


PAGE 1-B

 $\text{---CH}_2\text{---CMe}_3$ $\text{---(CH}_2\text{)}_7\text{---Me}$

RN 143151-76-2 HCA

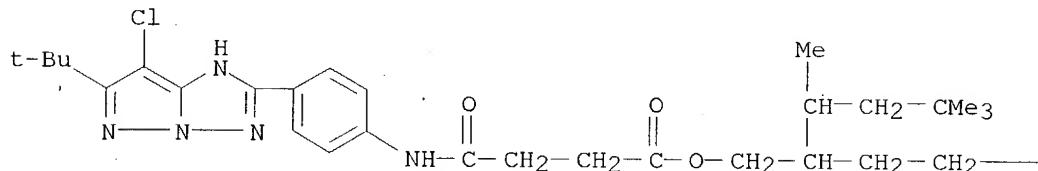
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 152828-03-0 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)octyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

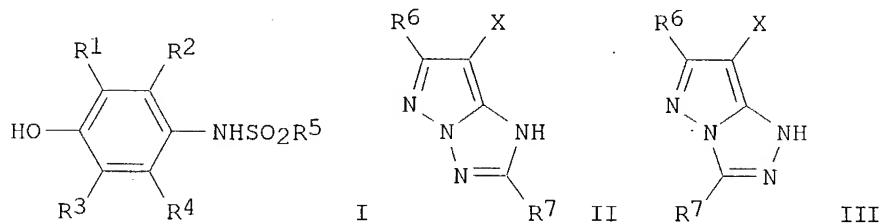


PAGE 1-B

 $\text{---CH---CH}_2\text{---CMe}_3$
 Me

L24 ANSWER 5 OF 38 HCA COPYRIGHT 2004 ACS on STN
 129:182133 Thermal development type silver halide color **photographic** material containing specific types of **couplers** and developing agents to improve image/storage stability. Naruse, Hideaki (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10213889 A2 19980811 Heisei, 88 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-31110 19970130.

GI



AB Claimed thermal development type color **photog.** material contains (1) a developing agent represented by the formula I [R1-4 = H, halo, alkyl, aryl, alkylcarboxamido, arylcarboxamido, alkylsulfonamido, arylsulfonamido, alkoxy, aryloxy, alkylthio, arylthio, alkylcarbamoyl, arylcarbamoyl, carbamoyl, (alkyl)sulfamoyl, cyano, alkylsulfonyl, arylsulfonyl, alcoxycarbonyl, aryloxycarbonyl, alkylcarbonyl, arylcarbonyl, acyloxy; R5 = alkyl, aryl, heterocycle], (2) a **coupler** selected from II and III (R6 = alkyl; R7 = alkyl, aryl; X = leaving group to be released by the **coupling** reaction), and (3) a **coupler** solvent selected from aliphatic phosphates, organic phthalates, polyol esters, carbonamides, and alkyl (poly)carboxylates. In spite of the incorporation of developing chems., it has good storage stability and provides dye images with good dye fastness. In an example, 2,6-di-chloro-4-(hexadecylfulonamido)phenol (developing agent) and **coupler** II (R6 = tert-Bu; R7 = p-(tetradecyloxycarbonylpropionamido)phenyl; X = Cl) are incorporated in the thermal developing multilayer color film.

IC ICM G03C008-40
 ICS G03C008-40; G03C001-42; G03C007-38; G03C007-388; G03C007-392;
 G03C007-407

CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST sulfonaminophenol developing agent **photog.** material; heat developable **photog. coupler** developer; thermal development sulfonaminophenol developer **photog.**; incorporated developer sulfonamino phenol **photog.** film; **pyrazolotriazole** magenta **coupler** heat developable **photog.**; chromogenic thermal development **photog.** processing

IT **Photographic** films
 (color, heat-developable; thermal development type silver halide color **photog.** material containing specific types of **couplers** and developing agents to improve image/storage stability)

IT 152827-88-8 152827-98-0 174614-86-9

188673-30-5 188673-32-7

RL: DEV (Device component use); USES (Uses)

(coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

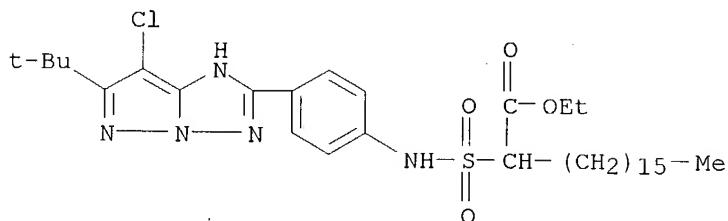
IT 187977-00-0 209794-95-6 210368-70-0
 RL: DEV (Device component use); USES (Uses)
 (developer; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

IT 77-90-7 78-42-2, Tris(2-ethylhexyl)phosphate 84-61-7 91-49-6
 93-99-2, Phenyl benzoate 103-23-1 115-96-8, Tris(2-chloroethyl)phosphate 122-62-3 126-73-8, Tributylphosphate, uses 141-38-8 1118-92-9 2451-86-7 2528-39-4, Trihexylphosphate 2528-40-7, Tricyclohexylphosphate 3352-87-2 4196-87-6 5338-65-8
 7360-38-5 13330-42-2 26086-33-9 28510-23-8 29376-81-6 53148-32-6
 92756-89-3 102874-65-7 109870-88-4 115241-77-5 135728-97-1
 211490-35-6, 14,15-Tritriaccontanedione 211621-43-1 211621-44-2
 RL: DEV (Device component use); USES (Uses)
 (high-b.p. solvent for coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

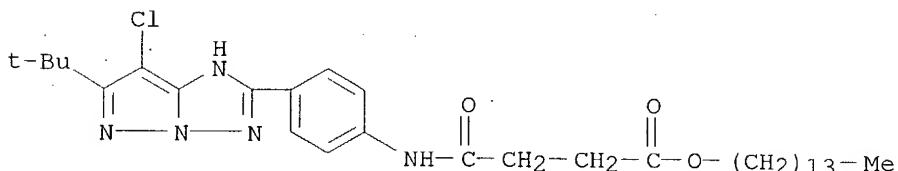
IT 152827-88-8 152827-98-0 174614-86-9
 188673-30-5 188673-32-7
 RL: DEV (Device component use); USES (Uses)
 (coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

RN 152827-88-8 HCA

CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

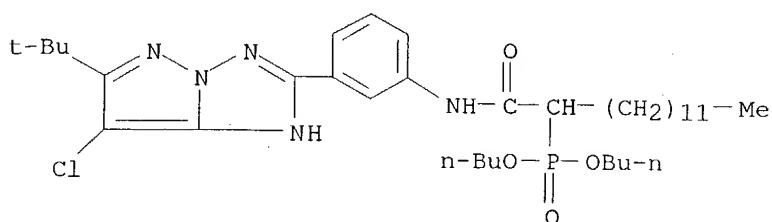


RN 152827-98-0 HCA
 CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



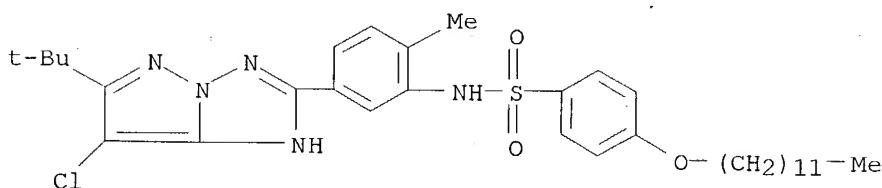
RN 174614-86-9 HCA
 CN Phosphonic acid, [1-[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]tridecyl-, dibutyl ester

(9CI) (CA INDEX NAME)



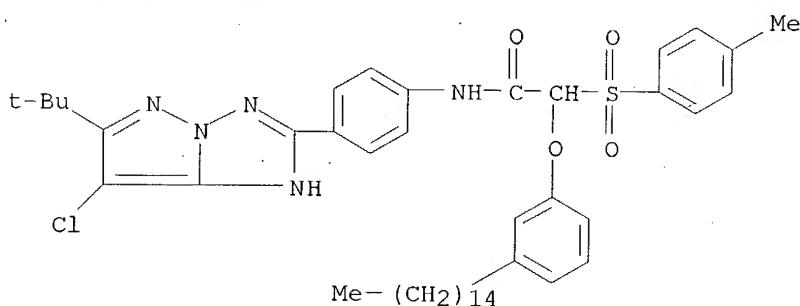
RN 188673-30-5 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)



RN 188673-32-7 HCA

CN Acetamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(4-methylphenyl)sulfonyl]-2-(3-pentadecyloxy)- (9CI) (CA INDEX NAME)



L24 ANSWER 6 OF 38 HCA COPYRIGHT 2004 ACS on STN

128:121632 Heat-developable color photosensitive material. Taguchi, Toshiki; Takeuchi, Kiyoshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09325464 A2 19971216 Heisei, 79 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-163670 19960605.

AB The heat-developable color photosensitive material comprises ≥ 2 photosensitive emulsion layers containing a photosensitive silver halide, a binder, a coupler, and developers on a support. The each emulsion layer has spectral sensitivity toward a different light wave region and a practically non-photosensitive middle layer is interposed between the emulsion layers, wherein at least one of the middle layers contains a coupler which couples with the developer but which does not form a color image. The material provides improved image discrimination and improved

color reproducibility without effecting on the other photog. characteristics.

IC ICM G03C008-40
ICS G03C008-40; G03C008-42

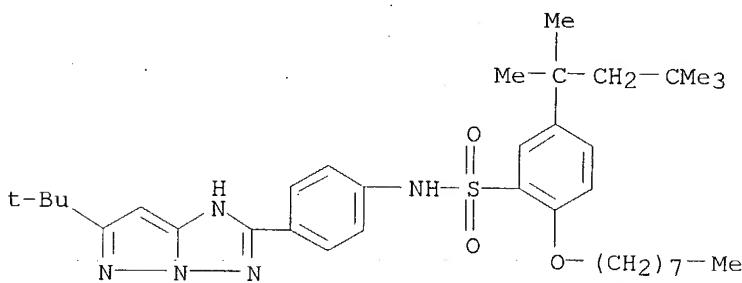
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 99661-33-3 152828-26-7 201541-61-9 201541-62-0
201541-63-1 201541-64-2
RL: TEM (Technical or engineered material use); USES (Uses)
(coupler in middle layer for heat-developable color photosensitive material)

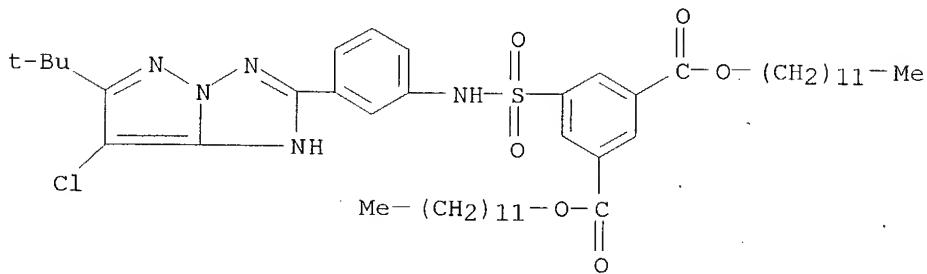
IT 152828-26-7 201541-61-9
RL: TEM (Technical or engineered material use); USES (Uses)
(coupler in middle layer for heat-developable color photosensitive material)

RN 152828-26-7 HCA

CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

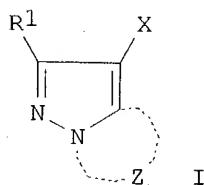


RN 201541-61-9 HCA
CN 1,3-Benzenedicarboxylic acid, 5-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, didodecyl ester (9CI) (CA INDEX NAME)



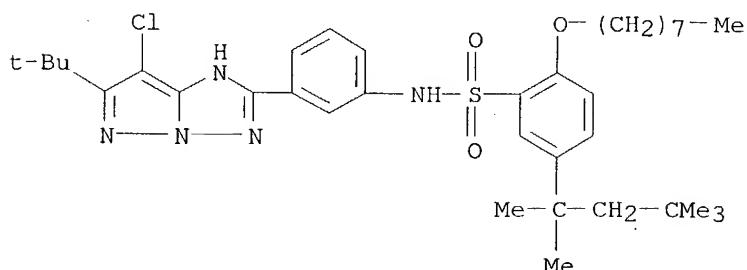
L24 ANSWER 7 OF 38 HCA COPYRIGHT 2004 ACS on STN
127:301208 Color image-forming method for duplicating original. Nagaoka,
Katsuro (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
09222710 A2 19970826 Heisei, 68 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1996-50731 19960215.

GI



- AB Claimed method for obtaining a duplication on a color **photog.** material having yellow-, cyan-, and magenta-dye developing layers on a support is characterized by that the original contains the magenta dye developed from a **pyrazoloazole coupler** I (R1 = H, substituent; Z = 5-membered **azole** containing 3 N atoms; X = H, or leaving group to be released by the **coupling** reaction with the oxidized developing agent) and (2) that the duplicating material contains the same **coupler** as that producing the dye in the original. Also claimed is that the duplicating material contains a **pyrazoloazole** or a **pyrroazole cyan coupler** which produces the dye incorporated in the original. The material is suitably a multilayer color reversal material and has an excellent color and tone reproduction quality, particularly in highlight gradation and color purity. Suitable magenta **couplers** are compound I (R1 = **tert**-butyl; X = Cl; Z = 3-[3-(2-n-octyloxy-5-**tert**-octyl-phenylsulfoamino)phenyl]-5,1-condensed-1,2,4-**triazole**), compound I (R1 = Me; X = Cl; Z = 3-[1-(2,5-di-**tert**-amylphenoxy)hexylcarbonylaminopropene-2-yl]-5,1-condensed-1,2,4-**triazole**), etc., and suitable cyan **couplers** are 3-methylsulfo-pyrazolo[5,1:d]-3-[3-[(3-**tert**-octylphenoxy)stearylarnido]phenyl]-1,2,4-**triazole**.
- IC ICM G03C007-38
 ICS G03C007-00; G03C007-18; G03C007-20
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **pyrazoloazole** magenta **coupler** photog
 material; cyan **coupler** **pyrazolotriazole** photog
 material; **pyrroazole** cyan **coupler** photog
 material; color reprodn **coupler** photog material
- IT Cyan **couplers**
 Magenta **couplers**
 Photography
 (color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 123828-34-2 196699-37-3
 RL: DEV (Device component use); USES (Uses)
 (cyan **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 131169-88-5 143151-76-2
 RL: DEV (Device component use); USES (Uses)
 (magenta **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 143151-76-2
 RL: DEV (Device component use); USES (Uses)
 (magenta **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- RN 143151-76-2 HCA

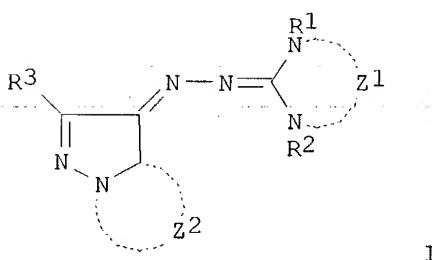
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 8 OF 38 HCA COPYRIGHT 2004 ACS on STN

127:163108 Non-dissociation-type **pyrazoloazole** dyes. Noro, Masaki (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09176502 A2 19970708 Heisei, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-350736 19951226.

GI



AB Title dyes useful in **photog. couplers** are represented by general structure I (R1, R2 = alkyl, aryl, heterocycle; R3 = H, substituents; Z1 = 5- or 6-membered ring-forming atoms; Z2 = atoms for forming **azole** ring containing 2-4 nitrogen).

IC ICM C09B057-00

CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 74

ST **pyrazoloazole** dye **photog coupler**

IT Dyes

(non-dissociation-type **pyrazoloazole** dyes)

IT **Photographic couplers**

(non-dissociation-type **pyrazoloazole** dyes for **photog.** **coupler**)

IT 193692-56-7P 193692-58-9P 193692-60-3P

193692-62-5P 193692-64-7P 193692-66-9P 193692-68-1P

193692-70-5P 193692-72-7P 193692-74-9P 193692-76-1P

193692-78-3P 193692-80-7P 193692-82-9P 193692-84-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material)

use); PREP (Preparation); USES (Uses)

(non-dissociation-type **pyrazoloazole** dyes)

IT 13545-87-4 143151-76-2 152828-26-7 193692-47-6
193692-50-1 193692-54-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of non-dissociation-type **pyrazoloazole** dyes)

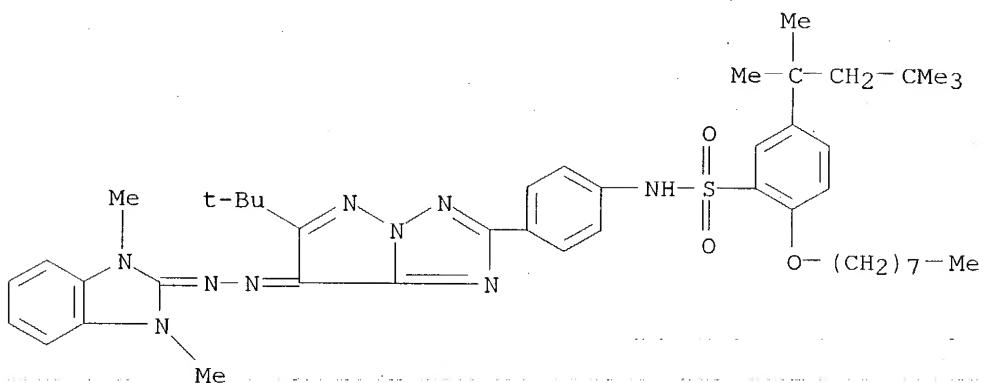
IT 193692-56-7P 193692-58-9P 193692-60-3P
193692-62-5P 193692-76-1P 193692-78-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(non-dissociation-type **pyrazoloazole** dyes)

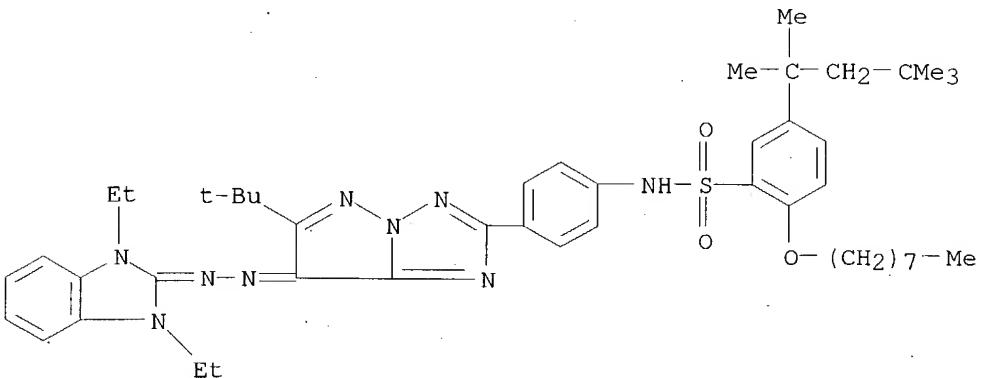
RN 193692-56-7 HCA

CN Benzenesulfonamide, N-[4-[7-[(1,3-dihydro-1,3-dimethyl-2H-benzimidazol-2-ylidene)hydrazone]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 193692-58-9 HCA

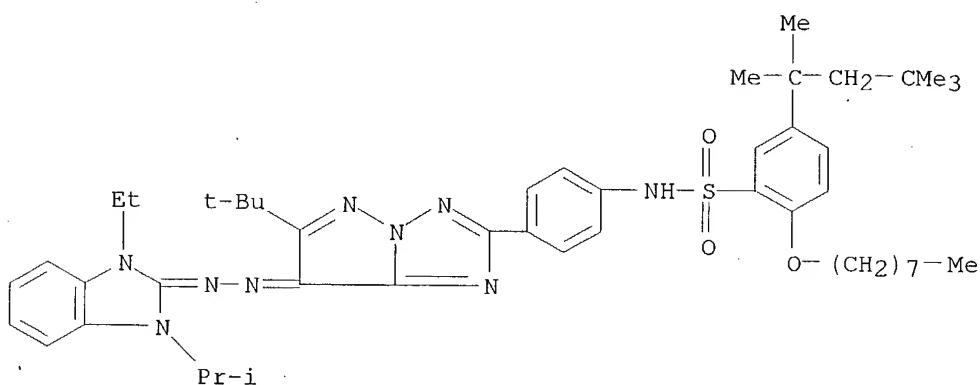
CN Benzenesulfonamide, N-[4-[7-[(1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)hydrazone]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 193692-60-3 HCA

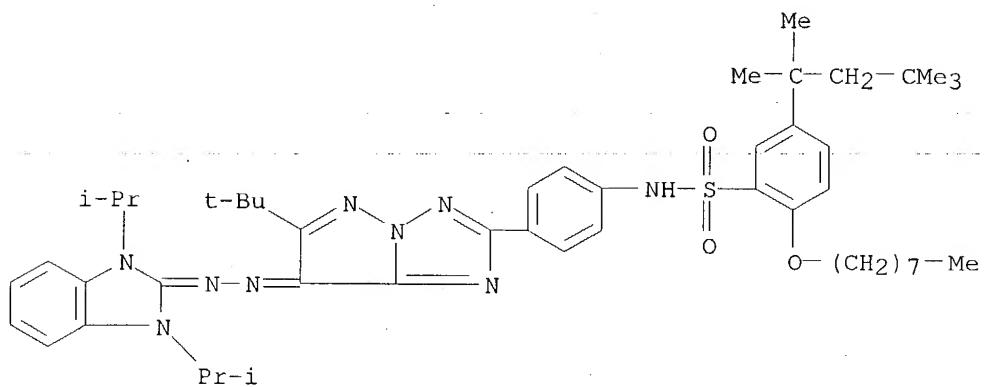
CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-[[1-ethyl-1,3-dihydro-3-(1-methylethyl)-2H-benzimidazol-2-ylidene]hydrazone]-7H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



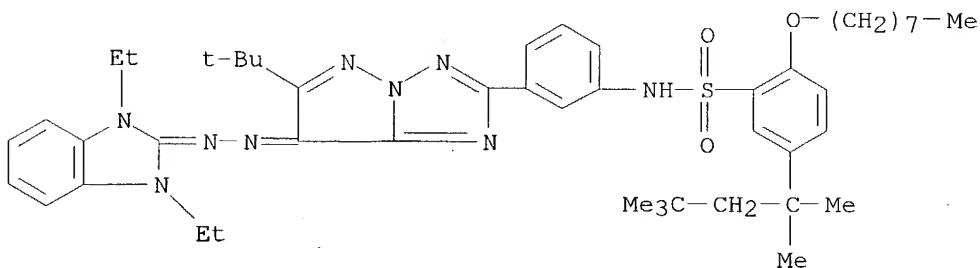
RN 193692-62-5 HCA

CN Benzenesulfonamide, N-[4-[7-[[1,3-dihydro-1,3-bis(1-methylethyl)-2H-benzimidazol-2-ylidene]hydrazone]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 193692-76-1 HCA

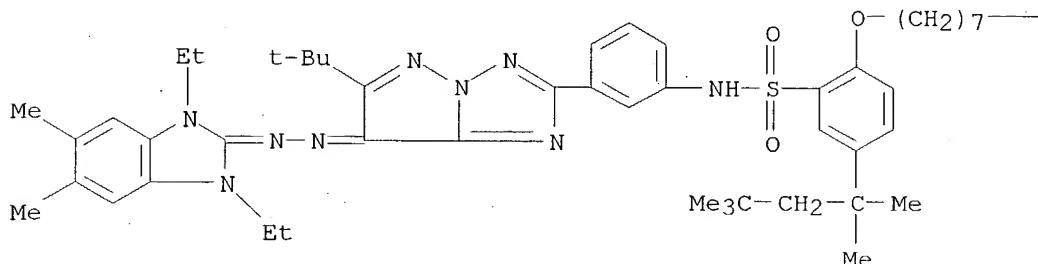
CN Benzenesulfonamide, N-[3-[7-[(1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)hydrazone]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 193692-78-3 HCA

CN Benzenesulfonamide, N-[3-[7-[(1,3-diethyl-1,3-dihydro-5,6-dimethyl-2H-benzimidazol-2-ylidene)hydrazone]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— Me

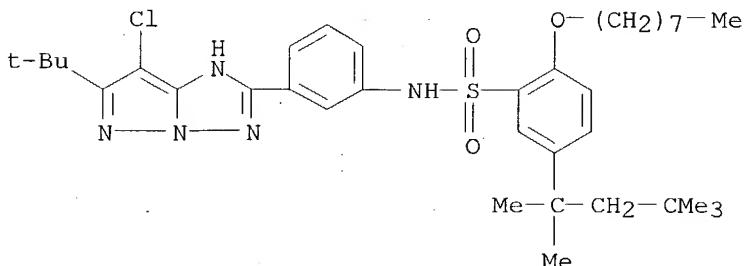
IT 143151-76-2 152828-26-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of non-dissociation-type pyrazoloazole dyes)

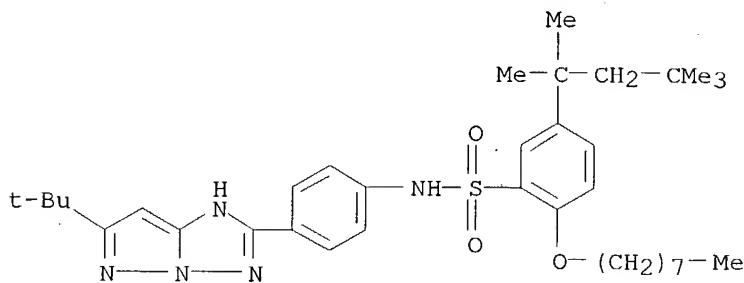
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 152828-26-7 HCA

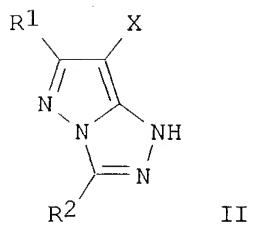
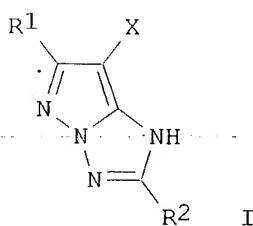
CN Benzenesulfonamide, N-[4-[(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 9 OF 38 HCA COPYRIGHT 2004 ACS on STN

126:257022 Silver halide color **photographic** material containing a **pyrazoloazole** magenta **coupler** and a basic metal compound to improve developability. Nakagawa, Hajime; Kawagishi, Toshio (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 09034071 A2 19970207 Heisei, 60 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-200255 19950714.

GI



AB Claimed color **photog.** material is characterized by (1) that green-sensitive layers contain a **pyrazolotriazole** magenta **coupler** I or II where R1 is tert-alkyl, and R2 is alkyl or aryl; X is H, halo or leaving group to be released by the **coupling** reaction with the oxidized developing agent, and (2) that a basic metal compound is incorporated in one of the component layer. The material has a good color developability, and provides an image with good color reproduction. Preferable basic metal compound is Zn(OH)₂, and it acts as an activator. Preferable magenta **couplers** are compound I (R1 = tert-butyl; R2 = 1,2-bis-(decyloxycarbonyl)propionamido; X= Cl) and compound II (R1 =

tert-butyl; R2 = 2,4,6-trimethyl-3-{4-(p-benzyloxyphenylsulfo)phenoxylauroylamido} phenyl; X = Cl), etc.

IC ICM G03C007-38
ICS G03C001-00; G03C001-76; G03C007-00; G03C007-26; G03C007-392;
G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST pyrazoloazole magenta coupler photog material; chromogenic coupler color photog material

IT Magenta couplers
(color photog. material containing pyrazoloazole magenta coupler and basic metal compound to improve developability)

IT 471-34-1, Calcium carbonate, uses 10103-46-5, Calcium phosphate 12125-28-9, Basic magnesium carbonate 20427-58-1, Zinc hydroxide 124351-77-5 **152827-88-8 152827-92-4**
152827-96-8 158600-58-9 188673-29-2
188673-30-5 188673-31-6 188673-32-7
188673-33-8 188673-34-9 188673-35-0 188673-36-1
188673-37-2 188673-38-3 188673-40-7 188673-42-9
188673-44-1 188673-46-3 188673-47-4 188673-48-5
RL: DEV (Device component use); USES (Uses)
(color photog. material containing pyrazoloazole magenta coupler and basic metal compound to improve developability)

IT **152827-98-0P 180610-27-9P 180611-91-0P**
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(color photog. material containing pyrazoloazole magenta coupler and basic metal compound to improve developability)

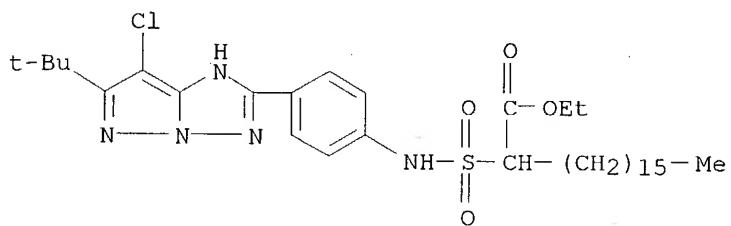
IT 140-66-9P 40654-37-3P 134115-94-9P 152828-23-4P **152828-24-5P**
152828-25-6P 166522-39-0P 175072-03-4P 180483-97-0P
180483-99-2P 180610-39-3P 180610-49-5P 180610-51-9P
180610-53-1P 180610-55-3P 180610-57-5P 180610-64-4P
180610-65-5P 180611-81-8P 180611-82-9P 180611-83-0P
180611-85-2P 188673-51-0P 188673-56-5P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(pyrazoloazole magenta coupler from; for color photog. materials)

IT 99-76-3 939-79-7 56367-24-9 82560-12-1 116925-10-1 188673-53-2
188673-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrazoloazole magenta coupler from; for color photog. materials)

IT **152827-88-8 152827-92-4 152827-96-8**
188673-29-2 188673-30-5 188673-31-6
188673-32-7 188673-33-8 188673-36-1
188673-38-3 188673-40-7
RL: DEV (Device component use); USES (Uses)
(color photog. material containing pyrazoloazole magenta coupler and basic metal compound to improve developability)

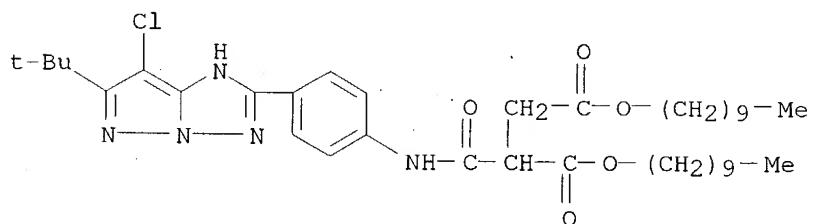
RN 152827-88-8 HCA

CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



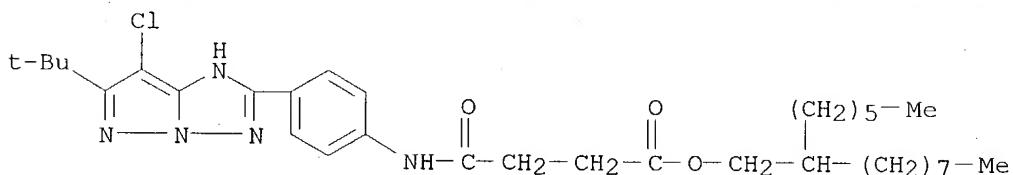
RN 152827-92-4 HCA

CN Butanedioic acid, [[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, didecyl ester (9CI) (CA INDEX NAME)



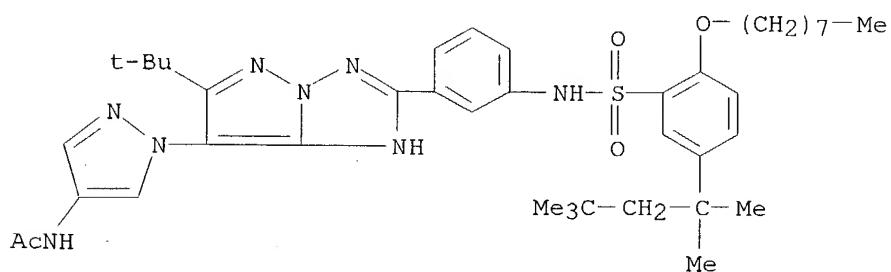
RN 152827-96-8 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 188673-29-2 HCA

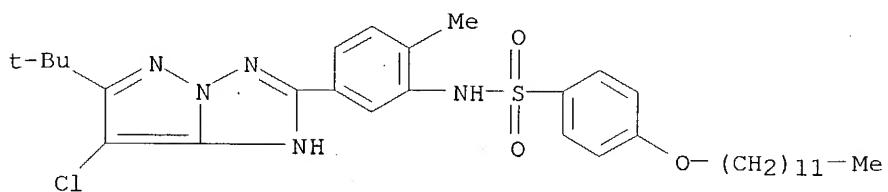
CN Acetamide, N-[1-[6-(1,1-dimethylethyl)-2-[3-[[2-(octyloxy)-5-(1',1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



RN 188673-30-5 HCA

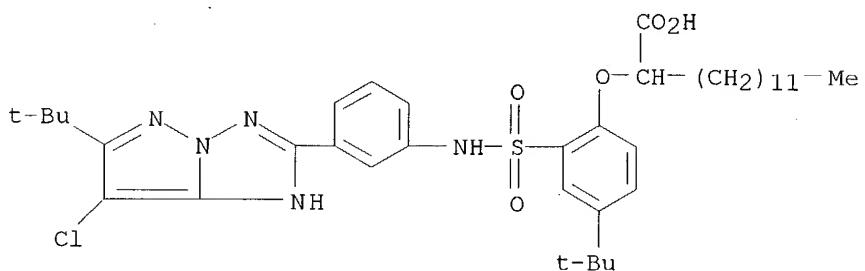
CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]-2-methylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)



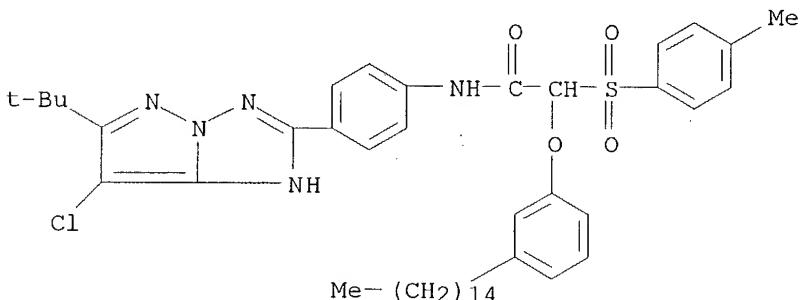
RN 188673-31-6 HCA

CN Tetradecanoic acid, 2-[2-[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1-dimethylethyl)phenoxy- (9CI) (CA INDEX NAME)



RN 188673-32-7 HCA

CN Acetamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(4-methylphenyl)sulfonyl]-2-(3-pentadecylphenoxy)- (9CI) (CA INDEX NAME)

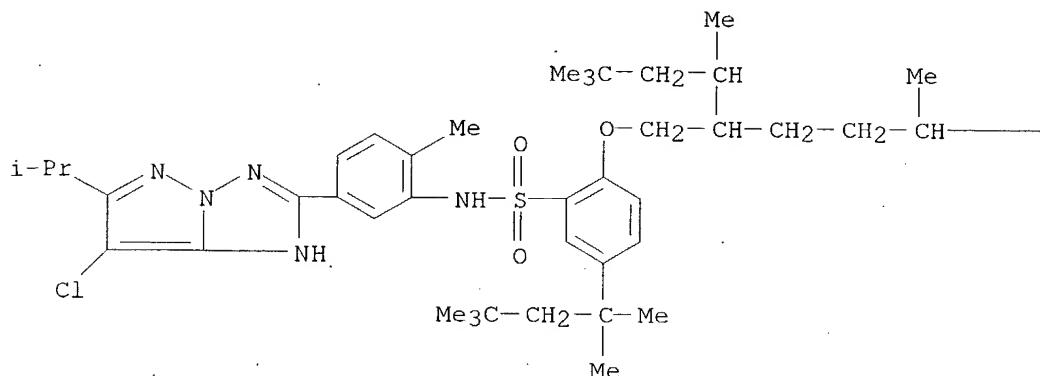


RN 188673-33-8 HCA

CN Propanamide, N-[2-[[6-(1,1-dimethylethyl)-2-[4-[[[(4-methylphenyl)sulfonyl](3-pentadecylphenoxy)acetyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]thio]phenyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

NAME)

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— CH₂ — CMe₃

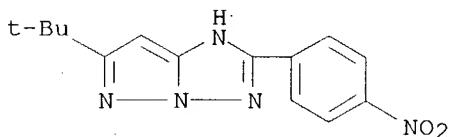
IT 152828-24-5P 152828-25-6P 175072-03-4P
 180610-53-1P 180610-55-3P 180610-65-5P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)

(pyrazoloazole magenta coupler from; for color
 photog. materials)

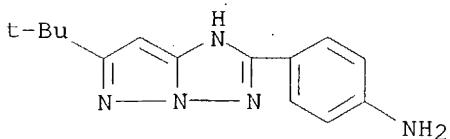
RN 152828-24-5 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-(4-nitrophenyl)-
 (9CI) (CA INDEX NAME)



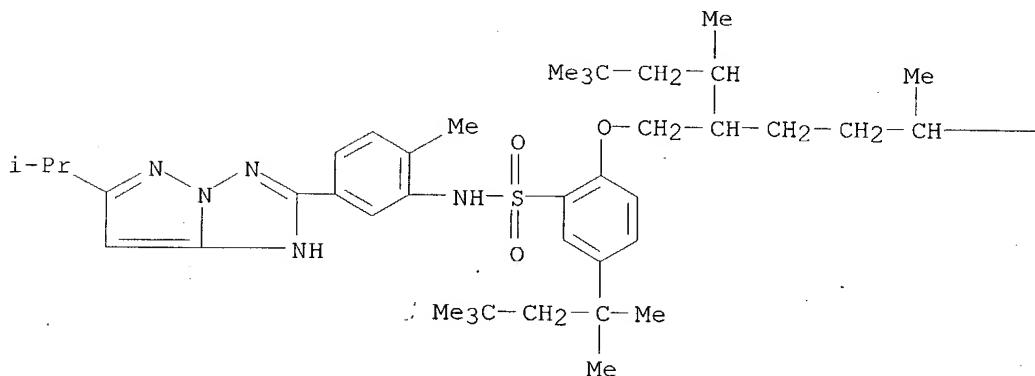
RN 152828-25-6 HCA

CN Benzenamine, 4-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



RN 175072-03-4 HCA

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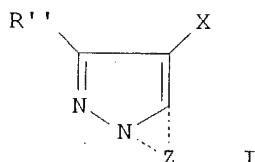
PAGE 1-B

$$-\text{CH}_2-\text{CMe}_3$$

L24 ANSWER 10 OF 38 HCA COPYRIGHT 2004 ACS on STN
125:288718 Silver halide color photographic material containing

pyrazoloazole magenta coupler and hydrazine compound.
Watanabe, Toshuki; Fukuzawa, Yutaka; Ono, Michio; Nakamura, Takashi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08201998 A2 19960809 Heisei, 47 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-25810 19950123

GI



AB The **photog.** material contains a magenta **coupler** I [R11 = H, substituent; Z = nonmetallic group forming 5-membered (substituted) azole ring containing 2-4 N; X = H, leaving group] and a hydrazine compound ($R21NA21NA22)mP(:Y)(R22)n$ ($R21$ = aryl, heterocyclic group; $R22$ = alkyl, cycloalkyl, aryl, alkoxy, aryloxy; $A21, A22$ = H, group leaving with alkali; $m = 1, 2, 3$; $n = 0, 1, 2$; $m + n = 3$; $Y = S, O$). The **photog.** material shows good storage stability and gives clear color **photog.** images with good color reproduction.

IC ICM G03C007-38

ICS G03C007-00; G03C007-392

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reproductive Processes)

ST pyrazoloazole magenta coupler photog;
hydrazine color photog material

IT Photographic couplers
(magenta, Ag halide color photog. material containing
pyrazoloazole magenta coupler and hydrazine compound)

IT 143151-76-2 143151-79-5 163076-19-5 182801-39-4
182801-40-7 182801-41-8 182801-42-9 182801-43-0 182801-44-1
182801-45-2 182920-91-8
RL: DEV (Device component use); USES (Uses)
(Ag halide color photog. material containing
pyrazoloazole magenta coupler and hydrazine compound)

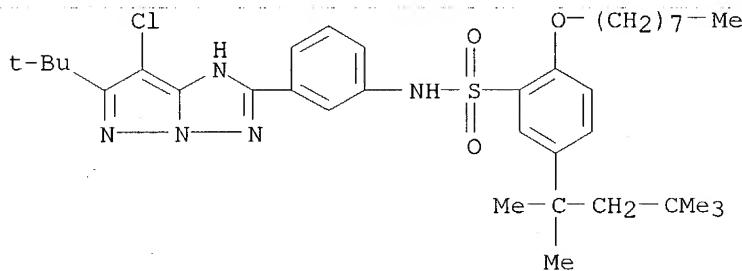
IT 180051-26-7P 180051-27-8P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(Ag halide color photog. material containing
pyrazoloazole magenta coupler and hydrazine compound)

IT 112-53-8, 1-Dodecanol 814-49-3, Diethyl chlorophosphate 10025-87-3,
Phosphorus oxychloride 182801-46-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of hydrazine compound for photog. material)

IT 143151-76-2
RL: DEV (Device component use); USES (Uses)
(Ag halide color photog. material containing
pyrazoloazole magenta coupler and hydrazine compound)

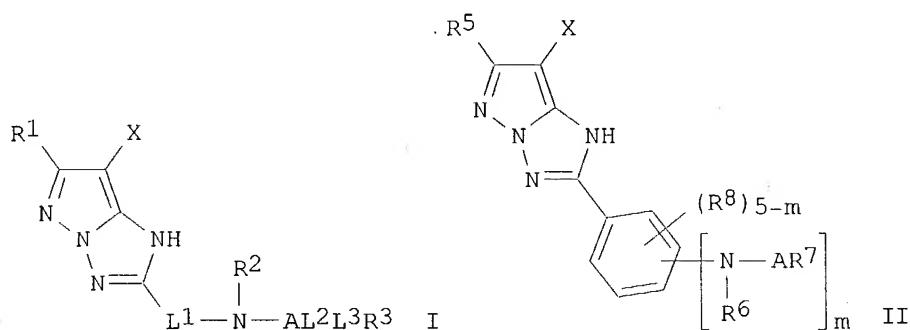
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 11 OF 38 HCA COPYRIGHT 2004 ACS on STN
 125:181142 Silver halide color photographic material containing
 pyrazolotriazole magenta coupler. Kawagishi, Toshio;
 Katsumata, Taiji (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho
 JP 08146574 A2 19960607 Heisei, 55 pp. (Japanese). CODEN:
 JKXXAF. APPLICATION: JP 1994-305748 19941116.

GI



AB The photog. material contains 1H-pyrazolo[1, 5-b][1, 2, 4] triazole coupler I or II [R1 = H, halo, substituent; X = H, halo, leaving group; L1 = divalent group; R2, R4 = H, alkyl, aryl, acyl, alkanesulfonyl, arenesulfonyl; A = CO, SO₂; L2 = 1,2-phenylene, C1-3 alkylene; L3 = N(R4)CO, N(R4)SO₂, CON(R4), SO₂(R4); R3 = alkyl, aryl; R5 = secondary alkyl; R8 = substituent; R6 = H, alkyl, aryl, acyl, alkanesulfonyl, arenesulfonyl; A = CO, SO₂; R7 = alkyl, aryl; m = 1,2]. The photog. material shows good color reproduction and lightfastness.

IC ICM G03C007-38
ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST pyrazolo triazole photog. magenta coupler

IT Photographic couplers
(magenta, Ag halide color photog. material containing pyrazolotriazole magenta coupler)

IT 180610-28-0 180610-29-1 180610-30-4
180610-31-5 180610-32-6 180610-33-7
180610-34-8 180610-35-9 180610-36-0 180610-37-1
180610-60-0 180610-61-1 180610-62-2 180610-63-3
RL: DEV (Device component use); USES (Uses)
(Ag halide color photog. material containing pyrazolotriazole magenta coupler)

IT 180610-26-8P 180610-27-9P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(Ag halide color photog. material containing pyrazolotriazole magenta coupler)

IT 134115-94-9P 180610-39-3P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(in pyrazolotriazole photog. magenta coupler preparation)

IT 140-66-9P 180483-97-0P 180483-99-2P 180610-42-8P 180610-44-0P
180610-47-3P 180610-49-5P 180610-51-9P 180610-53-1P
180610-55-3P 180610-57-5P 180610-64-4P 180610-65-5P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(in pyrazolotriazole photog. magenta coupler preparation)

IT 302-01-2, Hydrazine, reactions 939-79-7 7803-49-8, Hydroxylamine,

reactions 56367-24-9 82560-12-1 116910-31-7 116925-10-1
180610-59-7

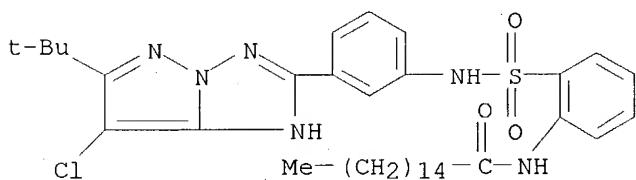
RL: RCT (Reactant); RACT (Reactant or reagent)
(in **pyrazolotriazole photog. magenta coupler preparation**)

IT 180610-28-0 180610-29-1 180610-31-5
180610-32-6 180610-33-7 180610-37-1
180610-60-0

RL: DEV (Device component use); USES (Uses)
(Ag halide color **photog. material containing pyrazolotriazole magenta coupler**)

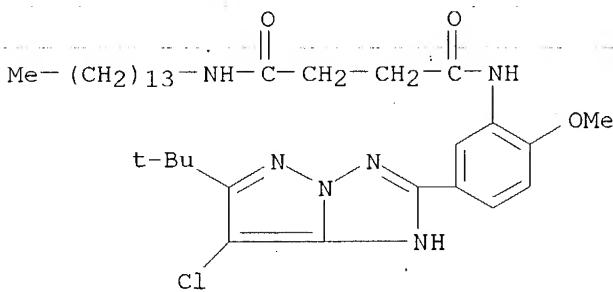
RN 180610-28-0 HCA

CN Hexadecanamide, N-[2-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



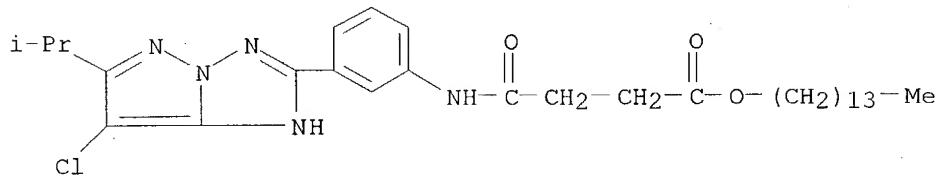
RN 180610-29-1 HCA

CN Butanediamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methoxyphenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



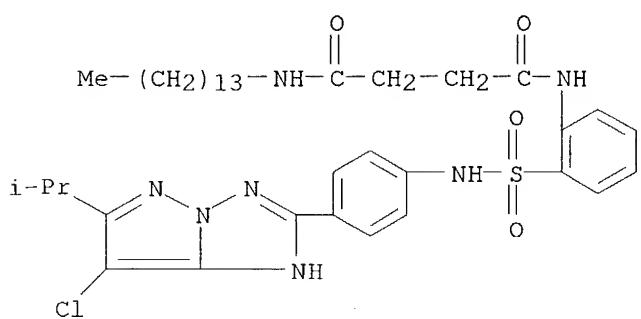
RN 180610-31-5 HCA

CN Butanoic acid, 4-[[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



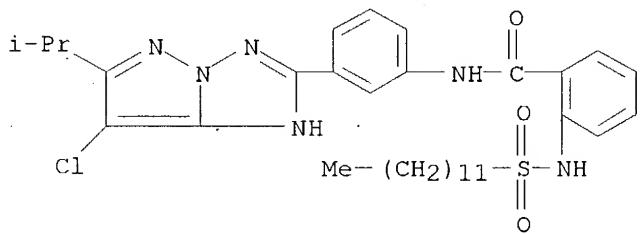
RN 180610-32-6 HCA

CN Butanediamide, N-[2-[[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



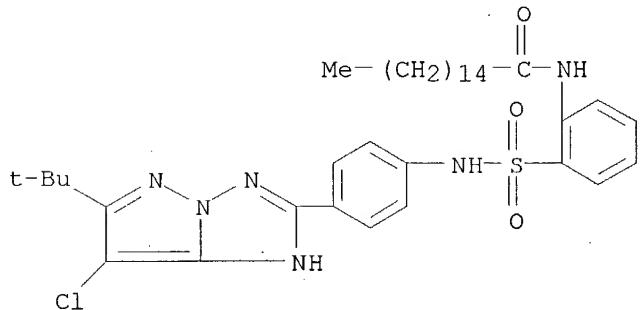
RN 180610-33-7 HCA

CN Benzamide, N-[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(dodecylsulfonyl)amino]- (9CI) (CA INDEX NAME)



RN 180610-37-1 HCA

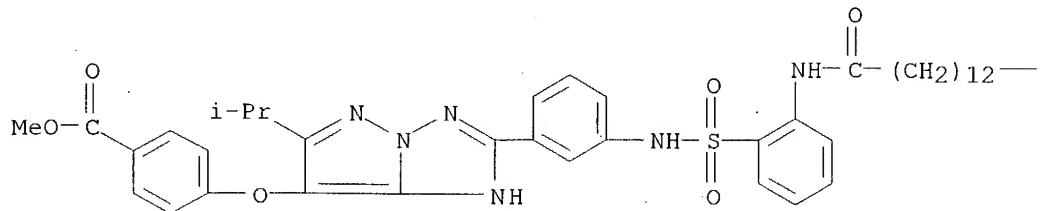
CN Hexadecanamide, N-[2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



RN 180610-60-0 HCA

CN Benzoic acid, 4-[(6-(1-methylethyl)-2-[3-[[2-[(1-oxotetradecyl)amino]phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

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— Me

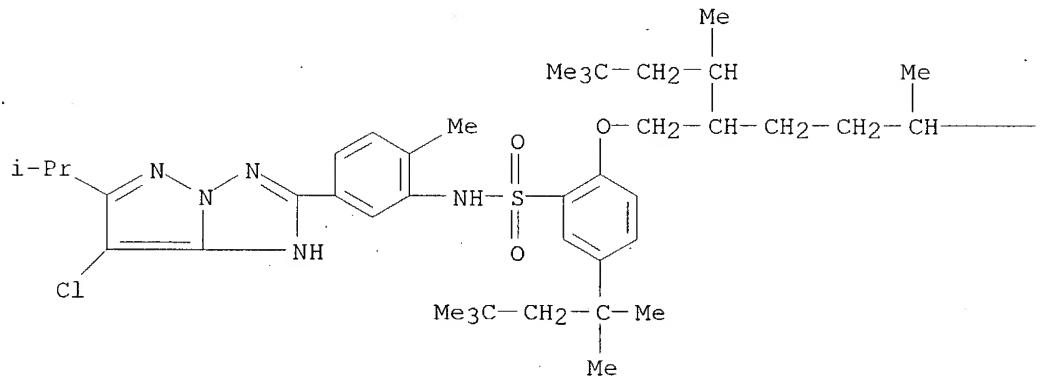
IT 180610-27-9P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (Ag halide color photog. material containing pyrazolotriazole magenta coupler)

RN 180610-27-9 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-5-(1,1,3,3-tetramethylbutyl)-2-[[5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)octyl]oxy] - (9CI) (CA INDEX NAME)

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— CH₂— CMe₃

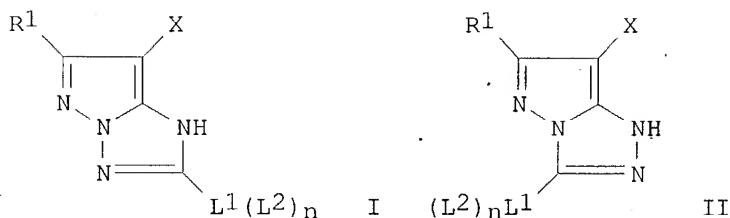
IT 180610-53-1P 180610-55-3P 180610-65-5P

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 $\text{---CH}_2\text{---CMe}_3$

L24 ANSWER 12 OF 38 HCA COPYRIGHT 2004 ACS on STN
 125:181141 Silver halide color **photographic** material containing
pyrazolotriazole magenta **coupler**. Kawagishi, Toshio;
 Nakamine, Takeshi; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn.
 Kokai Tokkyo Koho JP 08137065 A2 19960531 Heisei, 44 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-279295 19941114.

GI



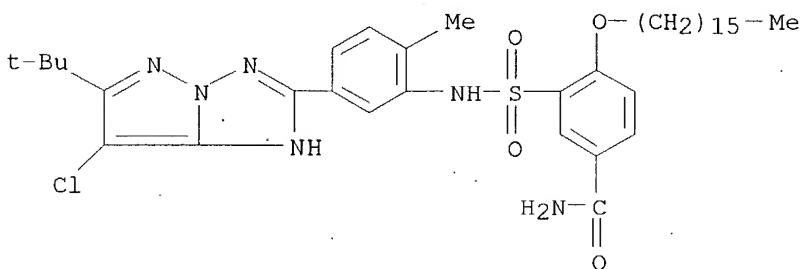
- AB The photog. material contains a **pyrazolotriazole coupler** I or II (R¹ = H, halo, substituent; X = H, halo, leaving group; L¹ = n + 1 valent linkage; L² = a group containing at least ANHR4; A = CO, SO₂; R⁴ = H, alkyl). The material shows good color developability and gives an color image with lightfastness.
- IC ICM G03C007-38
 ICS G03C007-00
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST pyrazolo triazole magenta photog coupler
- IT Photographic couplers
 (magenta, Ag halide color photog. material containing pyrazolotriazole magenta coupler)
- IT 180483-85-6 180483-86-7 180483-87-8 180483-88-9
 180483-89-0 180483-90-3 180483-91-4 180483-92-5 180483-93-6
- RL: DEV (Device component use); USES (Uses)
 (Ag halide color photog. material containing pyrazolotriazole magenta coupler)
- IT 180483-83-4P 180483-84-5P
 RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (Ag halide color photog. material containing pyrazolotriazole magenta coupler)
- IT 154020-68-5P 177281-00-4P 177281-01-5P 180483-94-7P 180483-95-8P
 180483-97-0P 180483-98-1P 180483-99-2P 180484-00-8P 180484-01-9P
- RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (in preparation of **pyrazolotriazole photog.** magenta

coupler)
 IT 63-74-1 140-66-9, p-tert-Octyl phenol 82560-12-1 116925-10-1
 155218-35-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (in preparation of **pyrazolotriazole photog. magenta coupler**)

IT 180483-85-6 180483-86-7 180483-93-6
 RL: DEV (Device component use); USES (Uses)
 (Ag halide color **photog.** material containing
pyrazolotriazole magenta coupler)

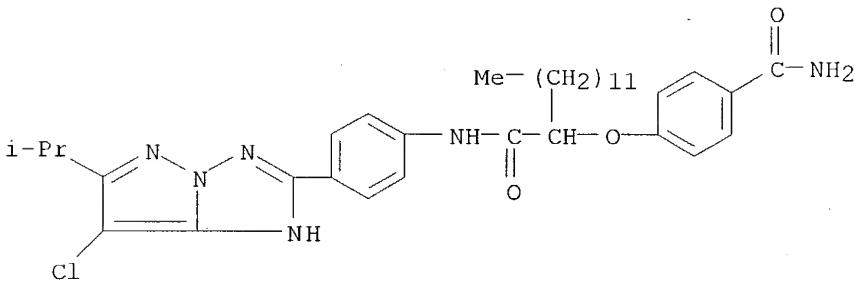
RN 180483-85-6 HCA

CN Benzamide, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-(9CI) (CA INDEX NAME)



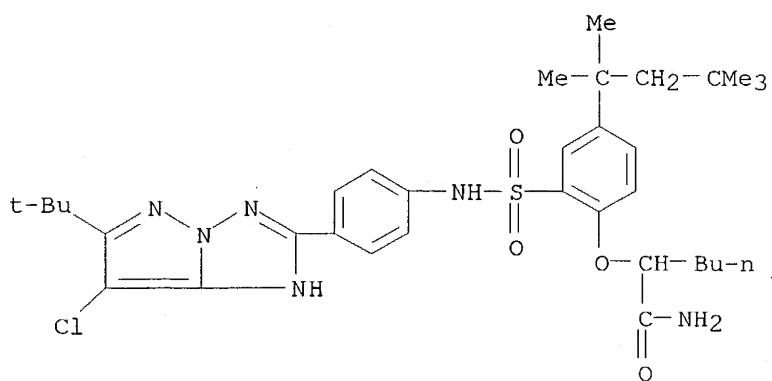
RN 180483-86-7 HCA

CN Benzamide, 4-[[1-[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]tridecyl]oxy)-(9CI) (CA INDEX NAME)



RN 180483-93-6 HCA

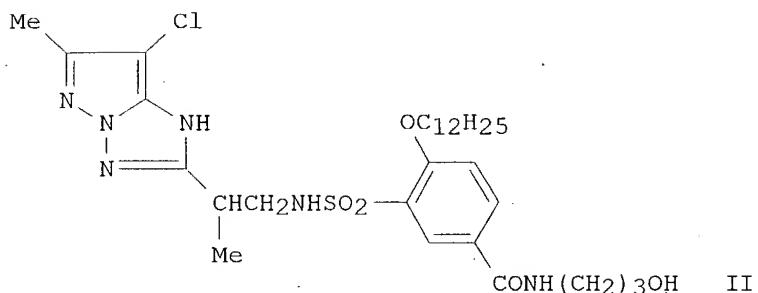
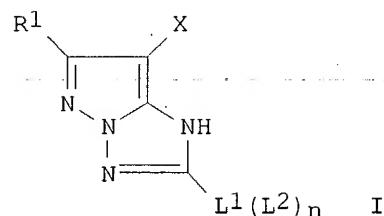
CN Hexanamide, 2-[2-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy)-(9CI) (CA INDEX NAME)



L24 ANSWER 13 OF 38 HCA COPYRIGHT 2004 ACS on STN

125:181126 Silver halide color **photographic** material with high coloring density and image fastness. Kawagishi, Toshio; Nakamine, Takeshi; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08146575 A2 19960607 Heisei, 58 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-305751 19941116.

GI



AB The title **photog.** material contains a 1H-pyrazolo[1,5-b][1,2,4]triazole coupler I (R1 = H, halo, substituted; L1 = n+1 valent group; L2 = specified group; X = H, halo, group releasable on reaction with an oxidized aromatic primary amine developer; n = 1, 2), e.g. the **coupler** (II).

IC ICM G03C007-38

ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

ST photog material **triazole coupler**

IT Photographic films
(triazole coupler for)

IT Photographic couplers
(triazole for photog. material)

IT 180611-90-9 180611-92-1 180611-93-2 180611-94-3
180611-95-4 180611-96-5 180611-97-6 180611-98-7
180611-99-8 180612-01-5 180612-02-6
180612-03-7 180612-04-8
RL: DEV (Device component use); USES (Uses)
(coupler for photog. material)

IT 180611-91-0P 180612-00-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(prepared as coupler for photog. material)

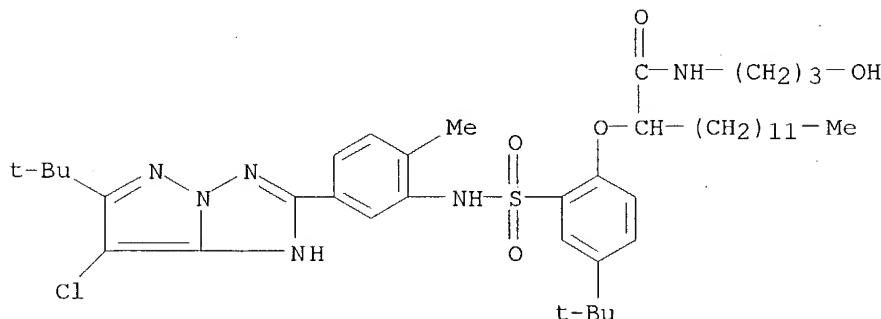
IT 40654-37-3P 134115-94-9P 166522-39-0P 177281-00-4P 177281-01-5P
177281-02-6P 177281-03-7P 177281-04-8P 180483-97-0P 180483-99-2P
180610-39-3P 180610-49-5P 180610-51-9P 180610-53-1P
180610-55-3P 180611-81-8P 180611-82-9P 180611-83-0P
180611-84-1P 180611-85-2P 180611-89-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepared for preparation of triazole coupler for photog. material)

IT 99-76-3 112-89-0 302-01-2, Hydrazine, reactions 939-79-7
7790-94-5, Chlorosulfuric acid 7791-25-5, Sulfuryl chloride
16082-33-0, 1H-Pyrazole-3,5-diamine 82560-12-1 116925-10-1
180611-86-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of triazole coupler for photog. material)

IT 180611-92-1 180611-95-4 180611-98-7
180612-01-5 180612-02-6 180612-03-7
RL: DEV (Device component use); USES (Uses)
(coupler for photog. material)

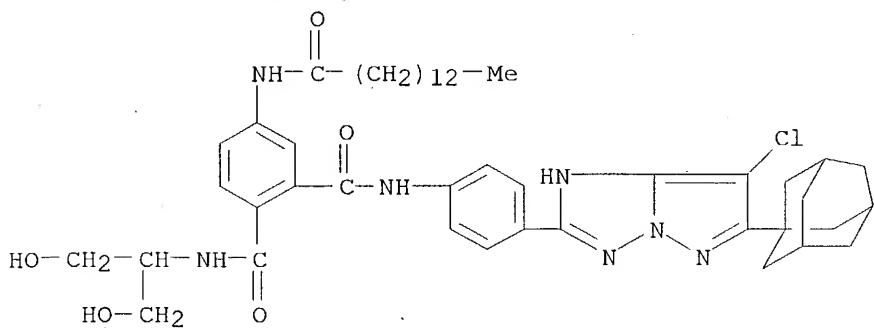
RN 180611-92-1 HCA

CN Tetradecanamide, 2-[2-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(1,1-dimethylethyl)phenoxy]-N-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



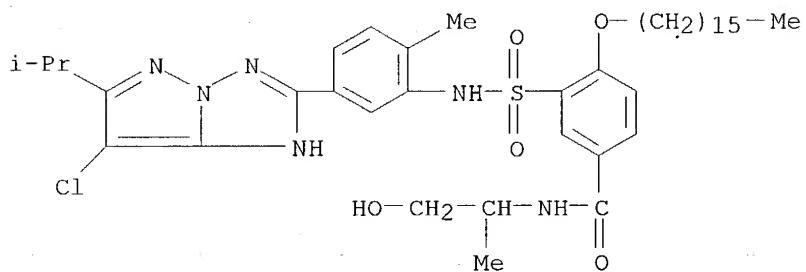
RN 180611-95-4 HCA

CN 1,2-Benzenedicarboxamide, N2-[4-(7-chloro-6-tricyclo[3.3.1.13,7]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-N1-[2-hydroxy-1-(hydroxymethyl)ethyl]-4-[(1-oxotetradecyl)amino]- (9CI) (CA INDEX NAME)



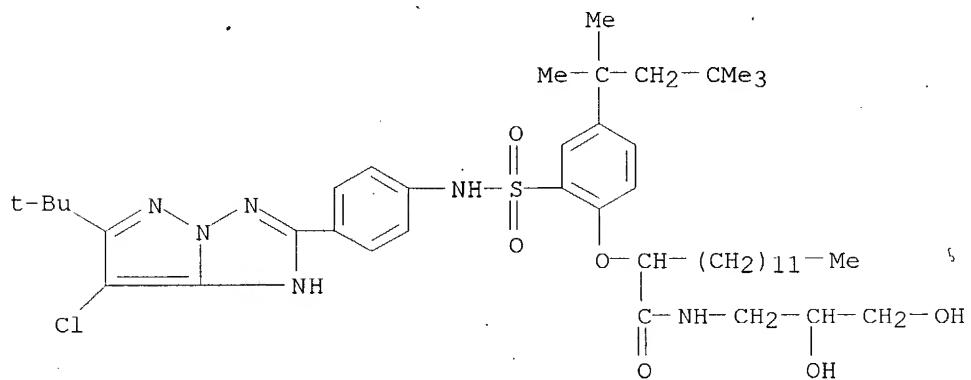
RN 180611-98-7 HCA

CN Benzamide, 3-[[[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-N-(2-hydroxy-1-methylethyl)-(9CI) (CA INDEX NAME)



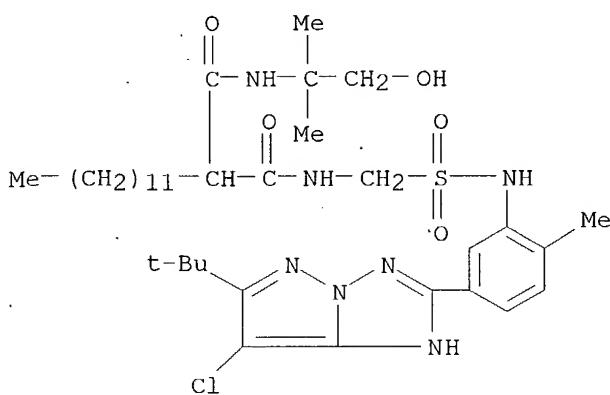
RN 180612-01-5 HCA

CN Tetradecanamide, 2-[2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-N-(2,3-dihydroxypropyl)-(9CI) (CA INDEX NAME)



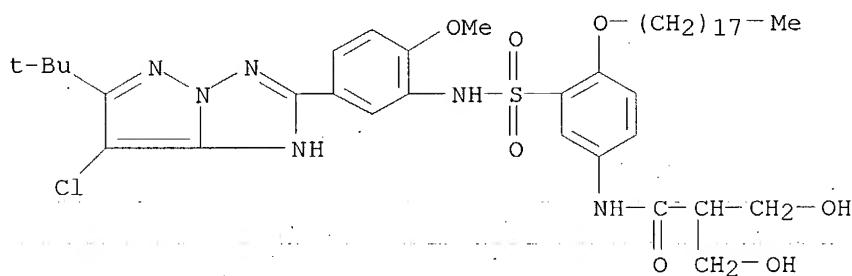
RN 180612-02-6 HCA

CN Propanediamide, N-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]methyl]-2-dodecyl-N-(2-hydroxy-1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



RN 180612-03-7 HCA

CN Propanamide, N-[3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methoxyphenyl]amino]sulfonyl]-4-(octadecyloxy)phenyl]-3-hydroxy-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)

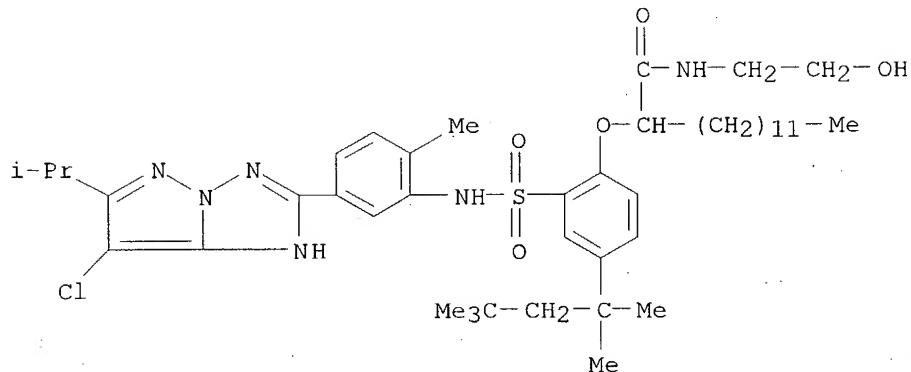


IT 180612-00-4P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(prepared as coupler for photog. material)

RN 180612-00-4 HCA

CN Tetradecanamide, 2-[2-[[[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



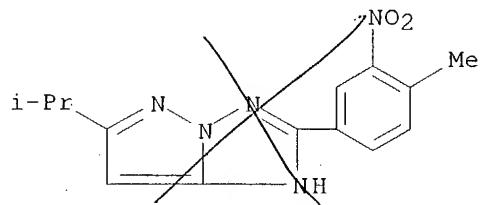
IT 180610-53-1P 180610-55-3P 180611-89-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepared for preparation of **triazole coupler for photog. material**)

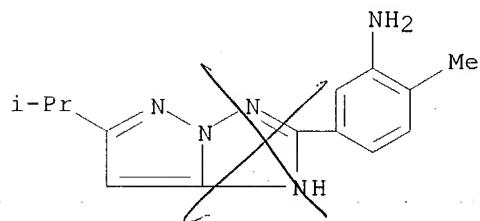
RN 180610-53-1 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1-methylethyl)-2-(4-methyl-3-nitrophenyl)- (9CI) (CA INDEX NAME)



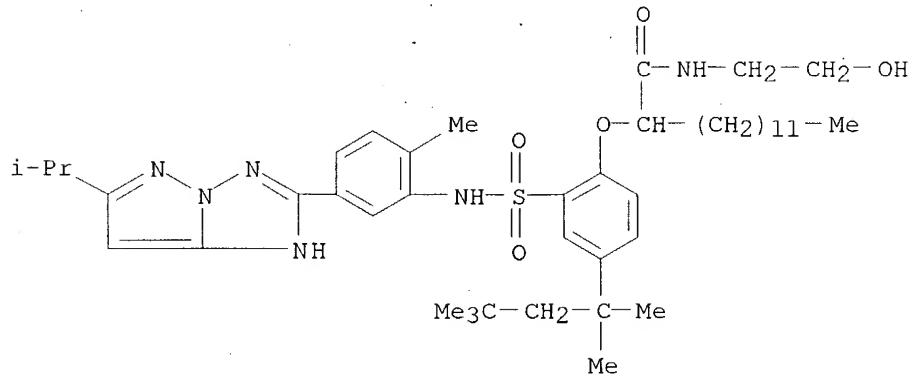
RN 180610-55-3 HCA

CN Benzenamine, 2-methyl-5-[6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



RN 180611-89-6 HCA

CN Tetradecanamide, N-(2-hydroxyethyl)-2-[2-[[2-methyl-5-[6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]- (9CI) (CA INDEX NAME)



L24 ANSWER 14 OF 38 HCA COPYRIGHT 2004 ACS on STN

124:302441 Silver halide color **photographic** material and method of forming color image. Yoshioka, Yasuhiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08029933 A2 19960202 Heisei, 63 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-113806 19950414. PRIORITY: JP 1994-121719 19940511.

AB The Ag halide color **photog.** material comprises magenta color-forming Ag halide emulsion layers, ≥1 of which contains 1H-pyrazolo[1,5-b]-1,2,4-triazole-type magenta **coupler**. One or more of yellow color-forming Ag halide emulsion layers of the **photog** material contains a yellow color-forming **coupler** with a sp. structure. The process exposes the **photog.** material by a scanning method at an exposure time of ≤10⁻⁴ s per an image element before development. The **photog.** material reduced color mixing and exhibited excellent color reproducibility.

IC ICM G03C007-38
ICS G03C001-047; G03C005-08; G03C007-00; G03C007-34; G03C007-36;
G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color **photog** material; **pyrazolotriazole** magenta **coupler**; yellow **coupler** color **photog** material; scanning exposure color **photog** material

IT **Photographic** emulsions
(**pyrazolotriazole** magenta **couplers** and yellow **couplers**)

IT **Photographic** emulsions
(color, **pyrazolotriazole**-type compound and yellow **couplers** in)

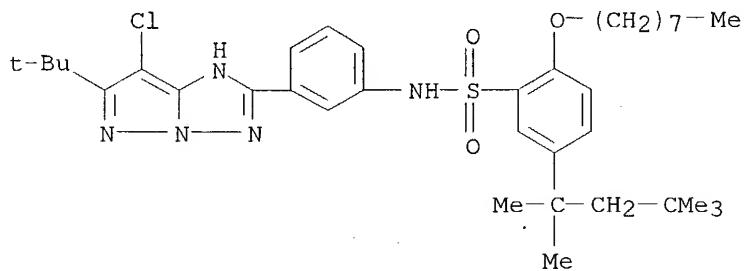
IT **Photographic** **couplers**
(magenta, **pyrazolotriazole**-type compound and yellow **couplers**)

IT 53918-52-8 143151-76-2 152827-88-8 152827-92-4
152827-96-8 152827-98-0 154256-13-0
173731-24-3 173855-72-6 174675-42-4
176218-60-3 176218-61-4 176218-62-5
176218-63-6 176218-64-7 176218-65-8 176218-66-9
176218-67-0 176218-68-1 176218-69-2 176218-70-5 176218-71-6
176218-72-7 176218-73-8 176218-74-9 176218-75-0
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(silver halide color **photog.** material and method of forming color image)

IT 143151-76-2 152827-88-8 152827-92-4
152827-96-8 152827-98-0 173731-24-3
173855-72-6 174675-42-4 176218-60-3
176218-61-4 176218-62-5 176218-63-6
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(silver halide color **photog.** material and method of forming color image)

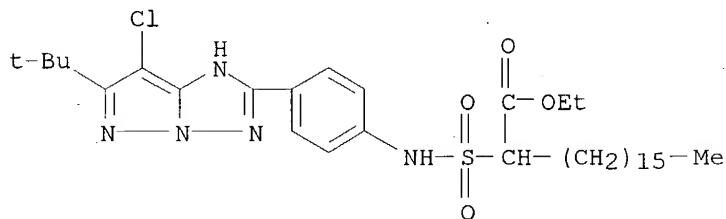
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



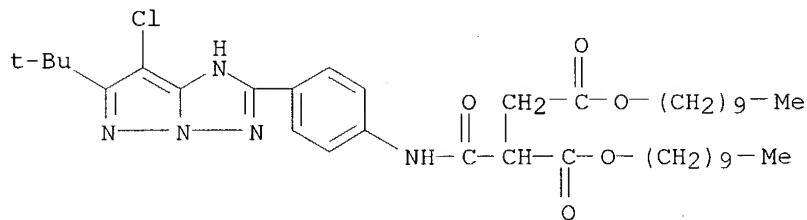
RN 152827-88-8 HCA

CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



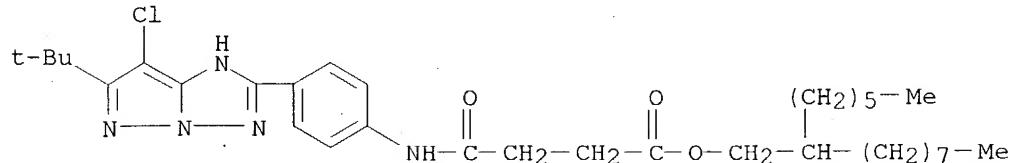
RN 152827-92-4 HCA

CN Butanedioic acid, [[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl-, didecyl ester (9CI) (CA INDEX NAME)



RN 152827-96-8 HCA

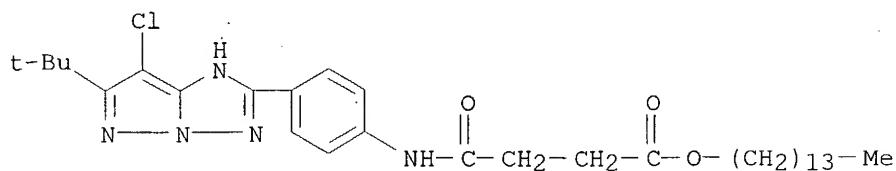
CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 152827-98-0 HCA

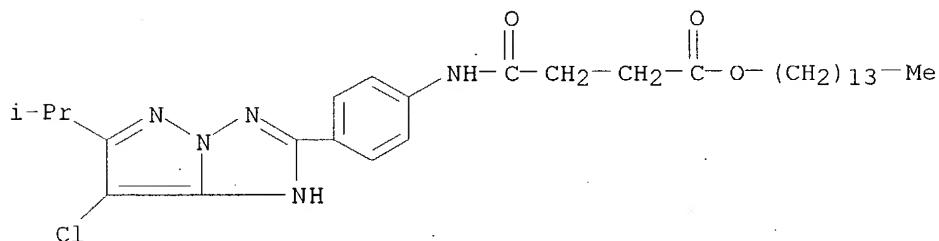
CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



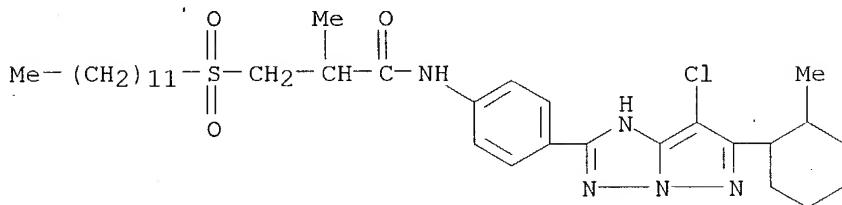
RN 173731-24-3 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



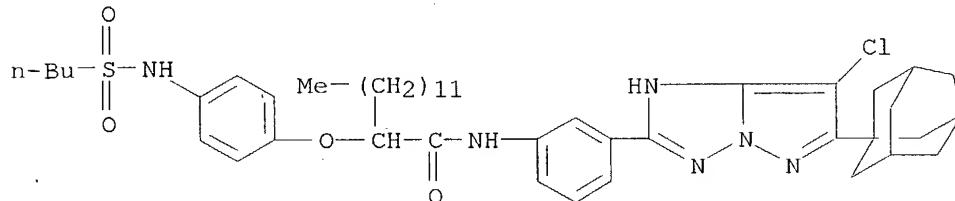
RN 173855-72-6 HCA

CN Propanamide, N-[4-[(7-chloro-6-(2-methylcyclohexyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-(dodecylsulfonyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 174675-42-4 HCA

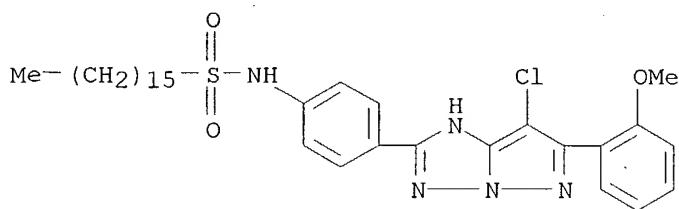
CN Tetradecanamide, 2-[(butylsulfonyl)amino]phenoxy-N-[3-(7-chloro-6-tricyclo[3.3.1.13,7]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



RN 176218-60-3 HCA

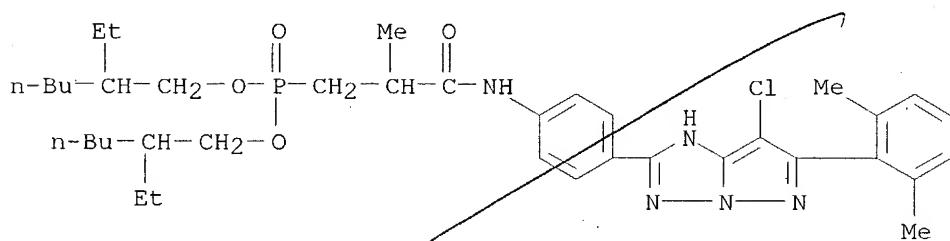
CN 1-Hexadecanesulfonamide, N-[4-[(7-chloro-6-(2-methoxyphenyl)-1H-

pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



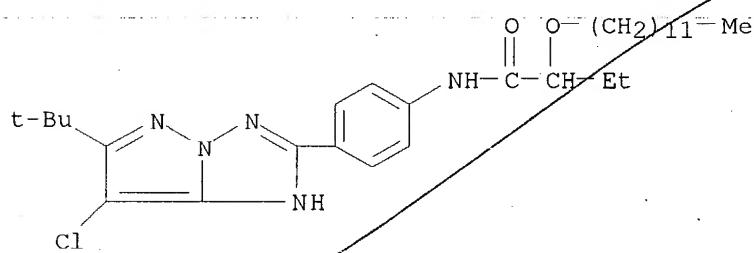
RN 176218-61-4 HCA

CN Phosphonic acid, [3-[[4-[7-chloro-6-(2,6-dimethylphenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-2-methyl-3-oxopropyl]-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



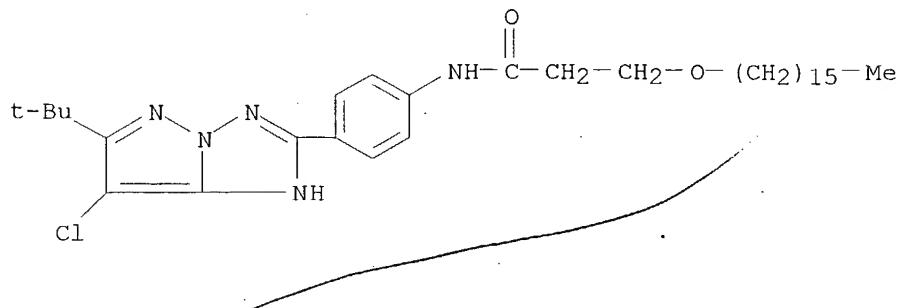
RN 176218-62-5 HCA

CN Butanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(dodecyloxy)- (9CI) (CA INDEX NAME)



RN 176218-63-6 HCA

CN Propanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-(hexadecyloxy)- (9CI) (CA INDEX NAME)



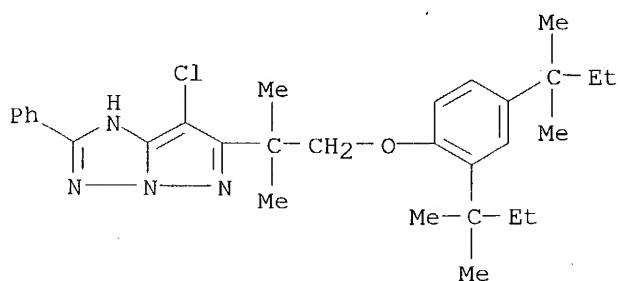
L24 ANSWER 15 OF 38 HCA COPYRIGHT 2004 ACS on STN

124:302390 Silver halide color **photographic** materials. Takada, Kyoto (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07311450 A2 19951128 Heisei, 49 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1994-125777 19940516.

GI

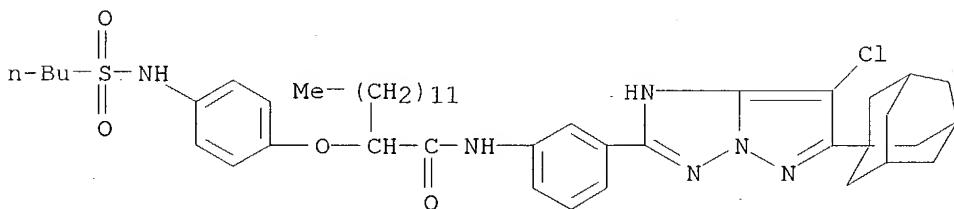
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB The title materials comprise a polyester resin support coated with **photog.** constitutive layers including ≥ 1 Ag halide emulsion layer ≥ 1 of which contains ≥ 1 magenta **coupler I** [R1 = CR4R5R6, CHR7R8, II (R4, R7 = alkyl, cycloalkyl, aryl heterocycl; R5, R6, R8-10 = substituent, R4, R5, and R6 or R7 and R8 may form a 5- to 7-membered single or condensed ring; m = 0-4); R2, R3 = substituent; n = 0-4; X = H or group releasable upon reaction with oxidized developing agents] and a Ag halide emulsion comprising Ag(Cl,Br) (AgCl ≥ 90 mol%) or AgCl and is hardened with ≥ 1 compound of III [R11 = Cl, OH, alkyl, alkoxy, alkylthio, OM (M = monovalent metal atom), NR13R14, NHCOR15 (R13-15 = H, alkyl, aryl); R12 represents the groups shown in R11, but is not Cl] and IV [R11, R12 = Cl, OH, alkyl, alkoxy, OM (M = monovalent metal atom); Q, Q1 = O, S, NH; L = alkylene, arylene; l, m, n = 0, 1] and contain a F-type surfactant in ≥ 1 of the **photog.** constitutive layers. The materials show good processability in rapid development process and storage stability and provide durable color images with good color reproducibility. Thus, a multilayer color **photog.** film was prepared by using a BaSO₄-containing PET support, a green-sensitive emulsion layer containing Ag(Cl, Br) and magenta **coupler V** and using hardener III (R11 = ONa; R12 = Cl), and a protective layer containing C8F17SO2NPrCH₂CO₂K.
- IC ICM G03C007-38
ICS C08J007-04; G03C001-035; G03C001-30; G03C001-38; G03C001-79; G03C001-795; G03C007-00
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST magenta **coupler photog pyrazolotriazole;** triazine deriv hardener **photog** material; fluorine surfactant color **photog** material
- IT **Photographic couplers**
(pyrazolotriazole derivs.as)
- IT **Photographic hardening agents**
(triazine derivs. as)
- IT 55910-10-6 60131-27-3 174675-49-1 174675-50-4
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(**photog.** films containing)
- IT 2736-18-7 32998-00-8 49624-61-5 101235-41-0 102055-97-0
102325-56-4 114824-82-7 174675-48-0
RL: DEV (Device component use); USES (Uses)
(**photog.** hardening agent)
- IT 152827-96-8 165729-59-9 174675-40-2
174675-41-3 174675-42-4 174675-43-5
174675-44-6 174675-45-7 174675-46-8
174675-47-9
RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)



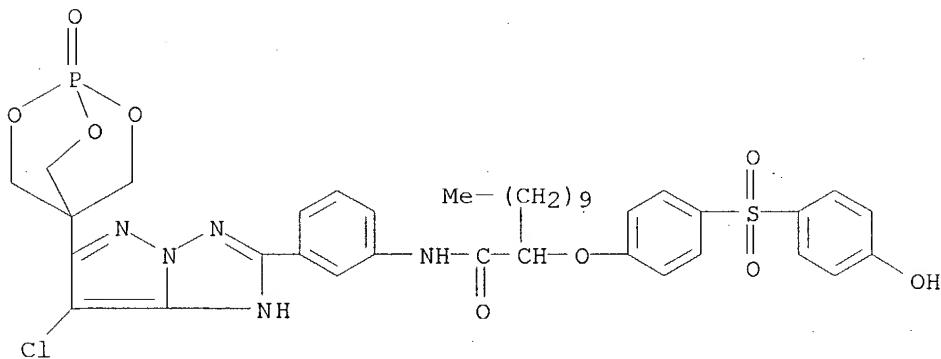
RN 174675-42-4 HCA

CN Tetradekanamide, 2-[4-[(butylsulfonyl)amino]phenoxy]-N-[3-(7-chloro-6-tricyclo[3.3.1.13,7]dec-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



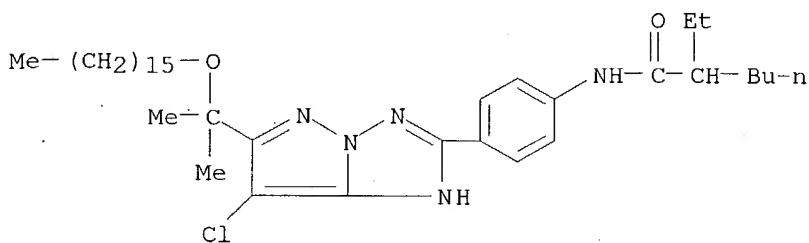
RN 174675-43-5 HCA

CN Dodecanamide, N-[3-[7-chloro-6-(1-oxido-2,6,7-trioxa-1-phosphabicyclo[2.2.2]oct-4-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[4-[(4-hydroxyphenyl)sulfonyl]phenoxy]- (9CI) (CA INDEX NAME)



RN 174675-44-6 HCA

CN Benzenesulfonamide, 2-chloro-N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-5-[(hexadecylsulfonyl)amino]- (9CI) (CA INDEX NAME)



L24 ANSWER 16 OF 38 HCA COPYRIGHT 2004 ACS on STN

124:215913 Color silver halide **photographic** material. Ootani, Shigeaki (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07333795 A2 19951222 Heisei, 69 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1994-148646 19940607.

AB In the title full-color Ag halide **photog.** material, 2 types of specified dyes having ≥ 1 dissociable group are dispersed in ≥ 1 **photog.** component layers as solid fine particles, and the magenta **coupler**-containing photosensitive emulsion layer contains a **pyrazolotriazole coupler**, and contains AgClBr, AgClBrI, AgClI or AgCl grains with AgCl content $\geq 70\%$, to which 0.0005-0.05 mol of a Br ion releasing compound and/or Br atom releasing compound is added per mol of Ag halide after Ag halide grains are formed but before the emulsion is applied to a **photog.** substrate.

IC ICM G03C007-38

ICS -G03C001-035; G03C001-06; G03C001-76; G03C001-83; G03C001-85;
G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST color **photog** emulsion dye; magenta **photog** **coupler** **pyrazolotriazole**

IT **Photographic** emulsions

(silver chloride content controlled)

IT **Photographic** films

(color, with good long-term stability)

IT **Photographic** **couplers**

(magenta, **pyrazolotriazole** type)

IT 77666-73-0 128188-09-0 148520-58-5 172839-14-4 174614-89-2
174614-90-5

RL: DEV (Device component use); USES (Uses)
(dye for **photog.** material)

IT 143151-76-2 152827-83-3 152827-96-8

174614-85-8 174614-86-9 174614-87-0

174614-88-1

RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)

IT 7758-02-3, Potassium bromide, processes

RL: PEP (Physical, engineering or chemical process); PROC (Process)
(**photog.** material containing)

IT 143151-76-2 152827-83-3 152827-96-8

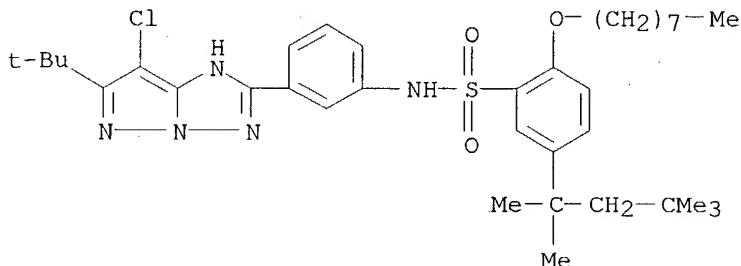
174614-85-8 174614-86-9 174614-87-0

174614-88-1

RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)

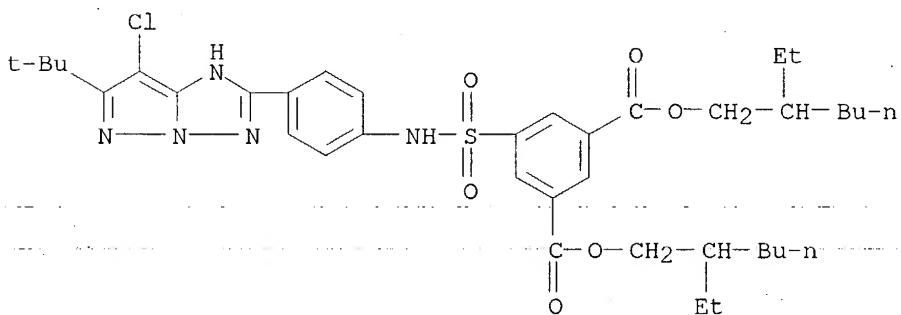
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



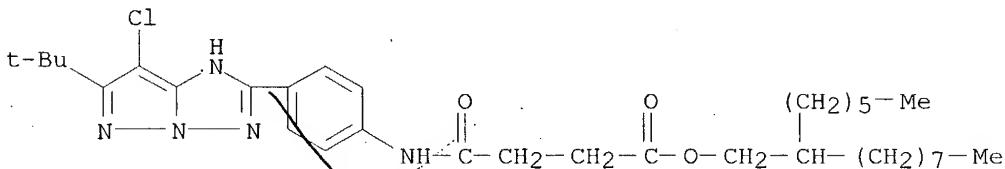
RN 152827-83-3 HCA

CN 1,3-Benzenedicarboxylic acid, 5-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



RN 152827-96-8 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



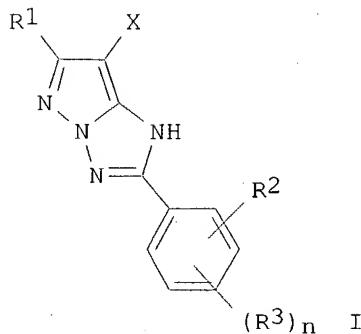
RN 174614-85-8 HCA

CN Octadecanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-4-oxo- (9CI) (CA INDEX NAME)

L24 ANSWER 17 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:270675 Full color silver halide photographic material with superior sharpness and improved processing independence. Kawai, Kyoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07219170 A2
19950818 Heisei, 61 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-23528 19940127.

GI



AB In the title full-color photog. material, the magenta layer contains ≥ 1 coupler I (R , X are specified organic group; $n = 0-4$), and the photog. material shows reflection d. at 550 nm ≥ 0.3 . The photog. material shows high-d., low fog and good image stability.

IC ICM G03C007-38

ICS G03C001-83; G03C005-08; G03C007-00; G03C007-20; G03C007-30;
 G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 143151-76-2 152827-98-0

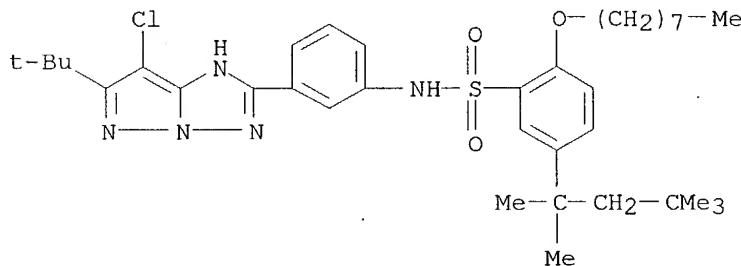
RL: DEV (Device component use); USES (Uses)
 (magenta coupler contained in full-color photog. paper)

IT 143151-76-2 152827-98-0

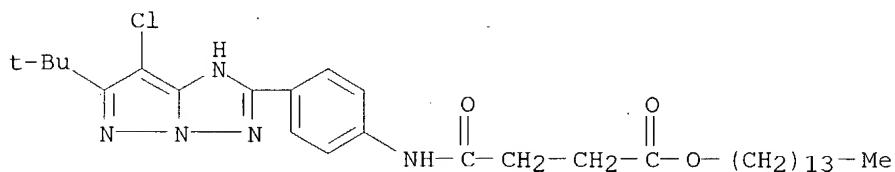
RL: DEV (Device component use); USES (Uses)
 (magenta coupler contained in full-color photog. paper)

RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

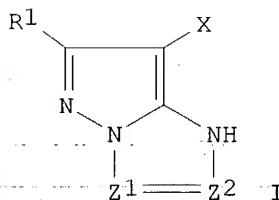


RN 152827-98-0 HCA
 CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 18 OF 38 HCA COPYRIGHT 2004 ACS on STN
 123:213053 Silver halide color photographic materials with high sensitivity, storage-stability, and suppressed stain formation. Kawagishi, Toshio; Mizukawa, Hiroki; Nakajo, Kyoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07191441 A2 19950728 Heisei, 116 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-347138 19931227.

GI



AB The title materials contain photog. couplers, I [Z1, Z2 = CR2, N; R1 = 3-8 membered ring, CHR3R4; R2 = substituent; X = H, group capable of leaving upon reaction with oxidized developing agent; R3, R4 = alkyl, cycloalkyl, aryl, heterocyclyl] and A1(TIME)aDI and/or A2(TIME)aDI [A1 = group containing non-diffusing group and capable of releasing (TIME)aDI upon reaction with oxidized aromatic primary amine developing agent; A2 = group containing no non-diffusing group and capable of releasing (TIME)aDI upon reaction with oxidized aromatic primary amine developing agent; TIME = timing group capable of releasing DI upon separation from A1 or A2; DI = development inhibitor; a = 1, 2] in an emulsion layer(s).

IC ICM G03C007-38

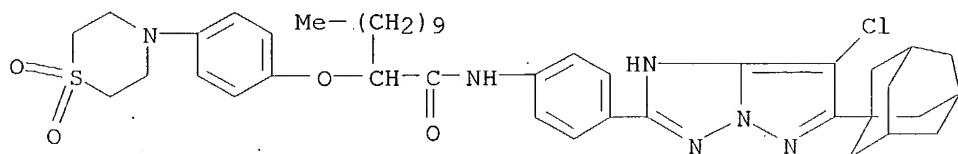
ICS G03C007-00; G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT	121604-72-6	143150-16-7	144291-03-2	150307-10-1	160508-28-1
	160544-71-8	161004-11-1	161004-13-3	161004-14-4	161004-15-5
	161004-17-7	161004-18-8	161004-19-9	161004-21-3	161004-22-4
	161004-24-6	161004-26-8	161069-19-8	161069-33-6	161069-35-8
	161069-37-0	161069-41-6	161098-44-8	161098-47-1	161286-64-2
	162006-25-9	162006-26-0	162006-27-1	162038-93-9	162745-77-9
	162745-78-0	163531-62-2	168180-20-9	168180-21-0	
	168203-52-9	168203-53-0			

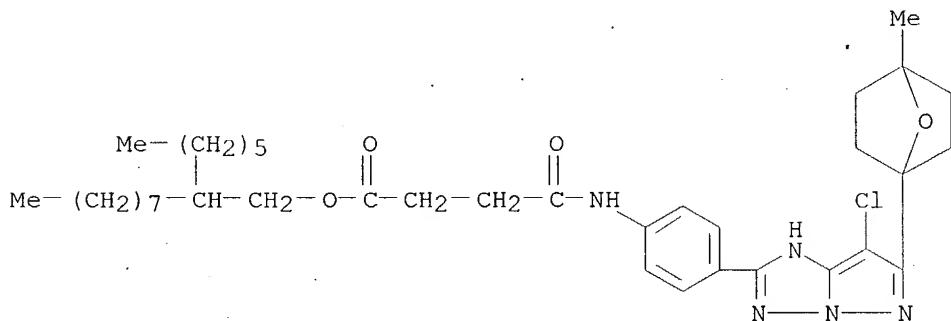
RL: DEV (Device component use); USES (Uses)
 (photog. DIR couplers)

thiomorpholinyl)phenoxy]- (9CI) (CA INDEX NAME)



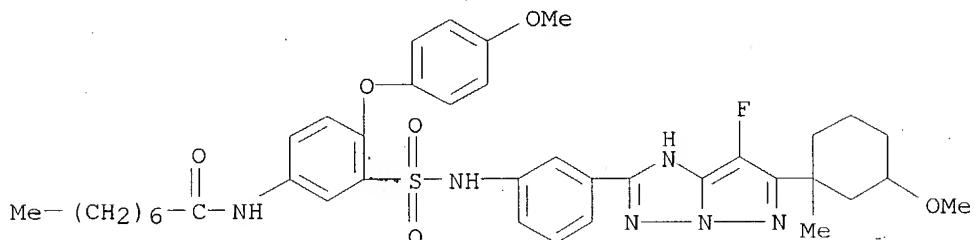
RN 168203-37-0 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(4-methyl-7-oxabicyclo[2.2.1]hept-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 168203-38-1 HCA

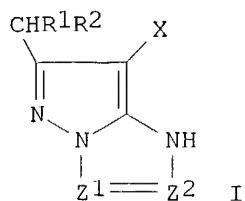
CN Octanamide, N-[3-[[3-[7-fluoro-6-(3-methoxy-1-methylcyclohexyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(4-methoxyphenoxy)phenyl- (9CI) (CA INDEX NAME)



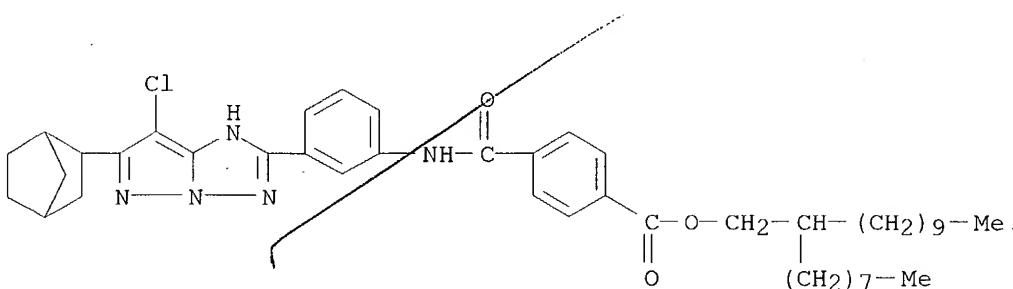
L24 ANSWER 19 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:97780 Silver halide color photographic material. Kawagishi, Toshio; Mizukawa, Hiroki; Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07110560 A2 19950425 Heisei, 63 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-277406 19931012.

GI

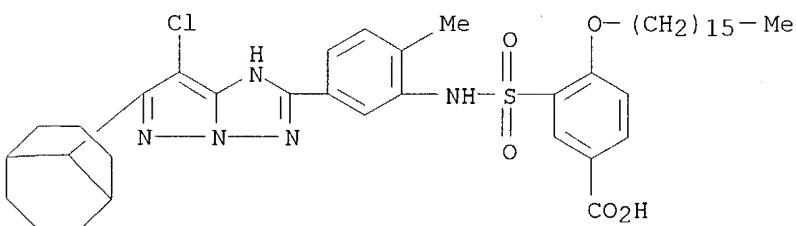


- AB A silver halide color **photog.** material given suppressed yellow-magenta stains and producing lightfast images contains a **coupler** represented by the formula I (Z1, Z2 = CR3 or N but Z1 = Z2 ≠ N where R3 = H or a substituent group and when Z1 = Z2 = CR3, R3 can not be H for both Z1 and Z2; R1 = alkyl which is substituted by a group or branched at the α C atom, cycloalkyl, or aryl; R2 = alkyl, cycloalkyl, or substituted aryl and R1 and R2 together may form a 5-7-membered ring; X = H or a group releasable upon reaction with an oxidized developer).
- IC ICM G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST silver halide color **photog** material; **pyrazoloazole photog coupler**
- IT **Photographic couplers**
(**pyrazoloazoles** as)
- IT **Photographic emulsions**
(color, containing **pyrazoloazole** color formers)
- IT 165255-84-5 165255-85-6 165255-87-8 **165255-88-9**
165255-89-0 165255-90-3 **165255-91-4** 165255-92-5
165255-93-6 165255-94-7 165255-95-8 165255-96-9 165255-97-0
165255-98-1
- RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. coupler**)
- IT 165255-80-1P 165255-81-2P **165255-82-3P** **165255-83-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and reaction in preparing **photog. coupler**)
- IT **165255-86-7P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and use as **photog. coupler**)
- IT 121-51-7 121-69-7, reactions 39739-52-1 116910-31-7 165255-79-8
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(reaction in preparing **photog. coupler**)
- IT **165255-88-9** **165255-91-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. coupler**)
- RN 165255-88-9 HCA
- CN Benzoic acid, 4-[[[3-(6-bicyclo[2.2.1]hept-2-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]carbonyl]-, 2-octyldodecyl ester (9CI)
(CA INDEX NAME)



RN 165255-91-4 HCA

CN Benzoic acid, 3-[[5-(6-bicyclo[3.3.1]non-9-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-(9CI) (CA INDEX NAME)



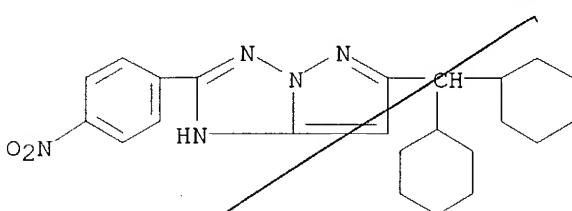
IT 165255-82-3P 165255-83-4P

RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation and reaction in preparing photog. coupler)

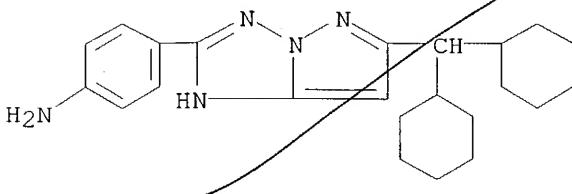
RN 165255-82-3 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(dicyclohexylmethyl)-2-(4-nitrophenyl)-(9CI) (CA INDEX NAME)



RN 165255-83-4 HCA

CN Benzenamine, 4-[6-(dicyclohexylmethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-(9CI) (CA INDEX NAME)



IT 165255-86-7P

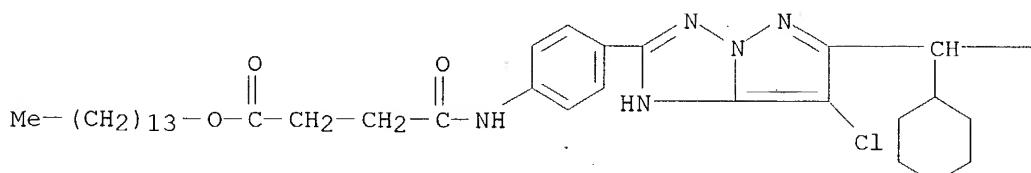
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation and use as **photog. coupler**)

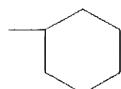
RN 165255-86-7 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(dicyclohexylmethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

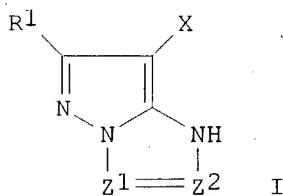


PAGE 1-B



L24 ANSWER 20 OF 38 HCA COPYRIGHT 2004 ACS on STN
 123:70233 Silver halide color **photographic** materials. Kawagishi,
 Toshio; Mizukawa, Hiroki; Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd,
 Japan); Jpn. Kokai Tokkyo Koho JP 07110559 A2 19950425 Heisei,
 63 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-277405 19931012.

GI



AB The title materials contain **pyrazoloazole couplers**, I [Z1, Z2 = CR2, N; R1 = bicyclo-alkyl, tricyclo-alkyl; R2 = specific organic group; X = H, group leaving upon **coupling** reaction with oxidized developing agent]. The materials showed improved light-resistance, reduced yellow-magenta stains, and stable developability.

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **photog magenta coupler pyrazoloazole**IT **Photographic emulsions**(color, silver halide color **photog.** materials)IT **Photographic couplers**

(magenta, silver halide color photog. materials)

IT 165185-44-4 165185-45-5 **165185-46-6** 165185-47-7
 165185-48-8 165185-49-9 165185-50-2 165185-51-3 165185-52-4
 165185-53-5 **165185-54-6** **165185-55-7** 165185-56-8
 165185-57-9

RL: DEV (Device component use); USES (Uses)
 (magenta couplers of Ag halide color photog.
 materials)

IT **165185-43-3P**
 RL: DEV (Device component use); SPN (Synthetic preparation); PREP
 (Preparation); USES (Uses)
 (magenta couplers of Ag halide color photog.
 materials)

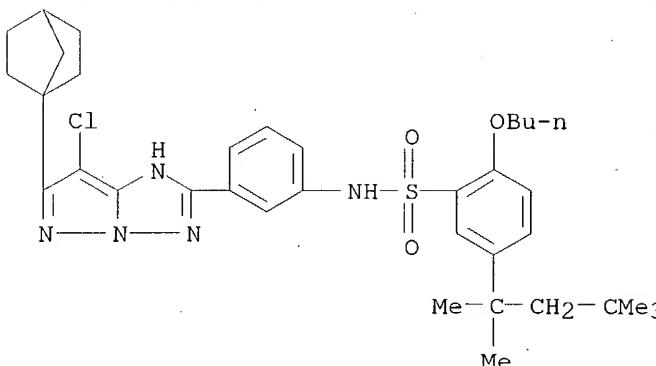
IT 39739-52-1, Methyl 4-nitrobenzimidate hydrochloride 153566-21-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (magenta couplers of Ag halide color photog.
 materials from)

IT 165185-59-1P 165185-60-4P **165185-61-5P** **165185-62-6P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (magenta couplers of Ag halide color photog.
 materials from)

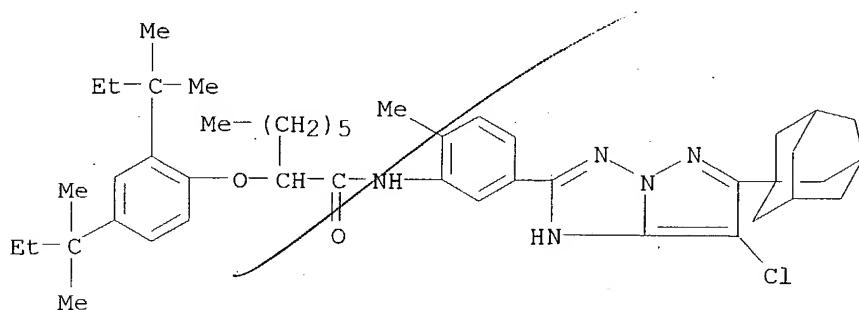
IT **165185-46-6** **165185-54-6** **165185-55-7**
 RL: DEV (Device component use); USES (Uses)
 (magenta couplers of Ag halide color photog.
 materials)

RN 165185-46-6 HCA

CN Benzenesulfonamide, N-[3-(6-bicyclo[2.2.1]hept-1-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-butoxy-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

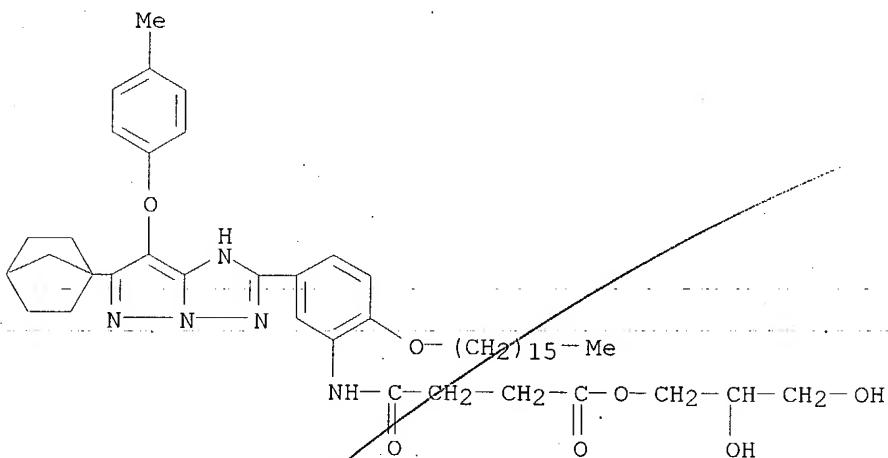


RN 165185-54-6 HCA
 CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-(7-chloro-6-tricyclo[3.3.1.13,7]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]- (9CI) (CA INDEX NAME)



RN 165185-55-7 HCA

CN Butanoic acid, 4-[[5-[6-bicyclo[2.2.1]hept-1-yl-7-(4-methylphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(hexadecyloxy)phenyl]amino]-4-oxo-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

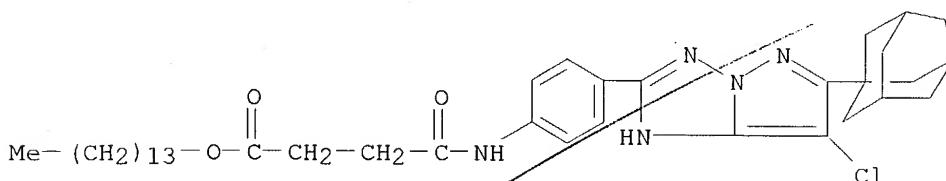


IT 165185-43-3P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(magenta couplers of Ag halide color photog. materials)

RN 165185-43-3 HCA

CN Butanoic acid, 4-[[4-(7-chloro-6-tricyclo[3.3.1.13,7]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



IT 165185-61-5P 165185-62-6P

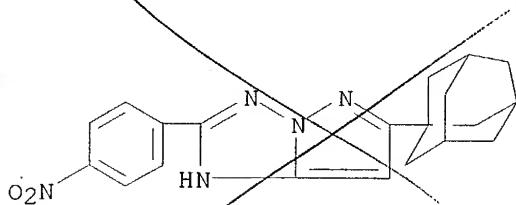
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(magenta **couplers** of Ag halide color photog.
materials from)

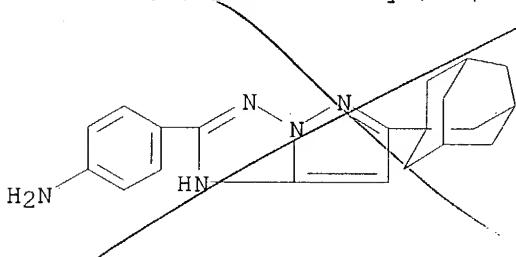
RN 165185-61-5 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 2-(4-nitrophenyl)-6-tricyclo[3.3.1.13,7]dec-1-yl- (9CI) (CA INDEX NAME)



RN 165185-62-6 HCA

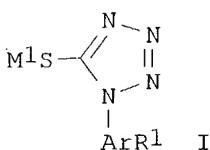
CN Benzenamine, 4-(6-tricyclo[3.3.1.13,7]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)- (9CI) (CA INDEX NAME)



L24 ANSWER 21 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:22055 Silver halide color photographic materials, color imaging methods and making of color proof with excellent color reproducibility. Makado, Satoshi; Ookawachi, Susumu (Konishiroku Photo Ind., Japan). Jpn. Kokai Tokkyo Koho JP 07084333 A2 19950331 Heisei, 35 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1994-171166 19940722. PRIORITY: JP 1993-181452 19930722.

GI



AB The title materials contain I (Ar = aromatic; R1 = OR2, NR3SO2R4, CO2M2; R2 = C≥2 hydrocarbyl; R3 = H, hydrocarbyl; R4 = hydrocarbyl; M1, M2 = H, alkali metal; alkaline earth metal; ammonium) and ≥90% of AgCl grains in photog. emulsion layers, and show reflection concns. of ≥0.8 at 450, 550, and 700 nm before development processes.

IC ICM G03C001-34

ICS G03C001-035; G03C001-825; G03C007-00; G03C007-38; G03C007-392; G03C007-407; G03F003-10

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

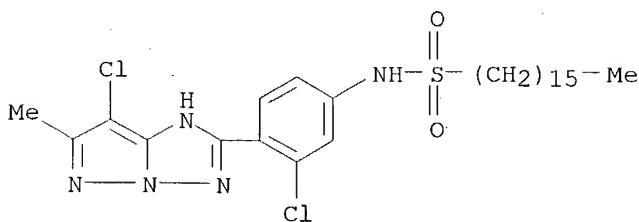
IT 116313-62-3 151745-04-9 162925-72-6 162925-73-7
162925-75-9 162925-76-0 162925-77-1 163768-68-1 163768-69-2

PAGE 1-B

—CH₂—CH₂—OPh

RN 163768-69-2 HCA

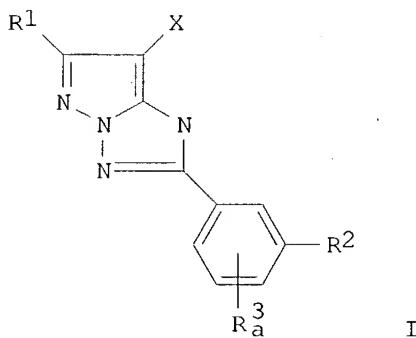
CN 1-Hexadecanesulfonamide, N-[3-chloro-4-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 22 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:22019 Silver halide color **photographic** material containing
pyrazolotriazole magenta **coupler**. Kawagishi, Toshio;
 Motoki, Masushi; Watanabe, Toshuki (Fuji Photo Film Co Ltd, Japan). Jpn.
 Kokai Tokkyo Koho JP 07013309 A2 19950117 Heisei, 38 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-178502 19930628.

GI



AB The material contains a **pyrazolotriazole** magenta **coupler** I (R₁ = tertiary alkyl; R₂ = carbonamide, alkoxy carbonylamino, aryloxycarbonylamino, ureido, sulfonamide, sulfamoylamino, imide containing ANHBR, NHSO₂-substituted benzene ring group, or CO₂H; A, B = SO₂, CO; R₃ = substituent; X = H, leaving group). The **coupler** I may be dispersed with a high-b. p. organic solvent. The material shows good color reproduction and storage stability.

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

ST pyrazolo triazole magenta photog coupler

IT **Photographic couplers**
 (magenta, Ag halide color photog. material containing
 pyrazolotriazole magenta coupler)

IT 163588-12-3 163588-13-4 163588-14-5
 163588-15-6 163588-16-7
 RL: DEV (Device component use); USES (Uses)
 (Ag halide color photog. material containing
 pyrazolotriazole magenta coupler)

IT 163588-10-1P 163588-11-2P
 RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
 (Preparation); USES (Uses)
 (Ag halide color photog. material containing
 pyrazolotriazole magenta coupler)

IT 163588-19-0P 163588-22-5P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (chlorination; pyrazolotriazole photog.
 coupler manufacture)

IT 78-17-1 122-62-3 30773-85-4 69341-26-0 85117-94-8
 RL: NUU (Other use, unclassified); USES (Uses)
 (coupler dispersion solvent; Ag halide color photog.
 material containing pyrazolotriazole magenta coupler)

IT 163588-21-4P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (hydrogenation; pyrazolotriazole photog.
 coupler manufacture)

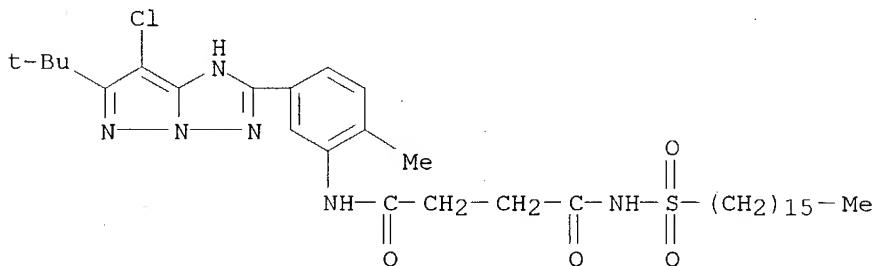
IT 163588-20-3P 163588-23-6P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (pyrazolotriazole photog. coupler manufacture)

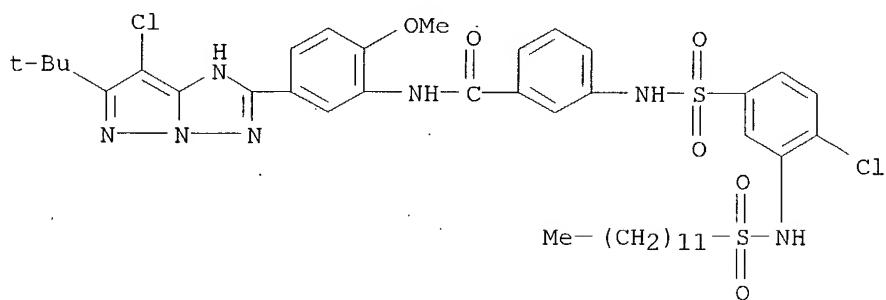
IT 97-08-5 128726-26-1 163588-17-8 163588-18-9
 163588-24-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (pyrazolotriazole photog. coupler manufacture)

IT 163588-12-3 163588-13-4 163588-14-5
 163588-15-6 163588-16-7
 RL: DEV (Device component use); USES (Uses)
 (Ag halide color photog. material containing
 pyrazolotriazole magenta coupler)

RN 163588-12-3 HCA

CN Butanediamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
 b][1,2,4]triazol-2-yl]-2-methylphenyl]-N'-(hexadecylsulfonyl)- (9CI) (CA
 INDEX NAME)



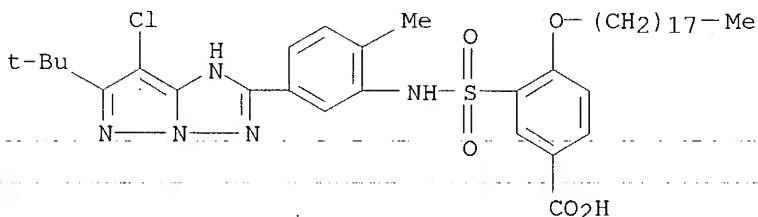


IT 163588-10-1P 163588-11-2P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(Ag halide color photog. material containing
pyrazolotriazole magenta coupler)

RN 163588-10-1 HCA

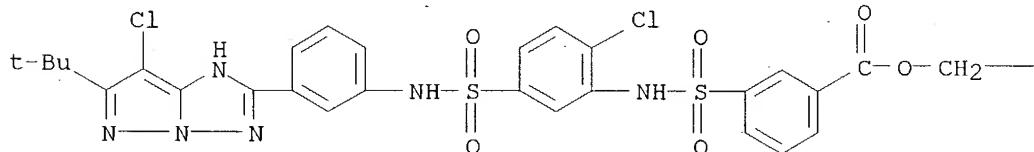
CN Benzoic acid, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-(9CI) (CA INDEX NAME)



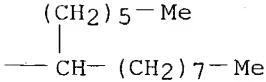
RN 163588-11-2 HCA

CN Benzoic acid, 3-[[[2-chloro-5-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]amino]sulfonyl]-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

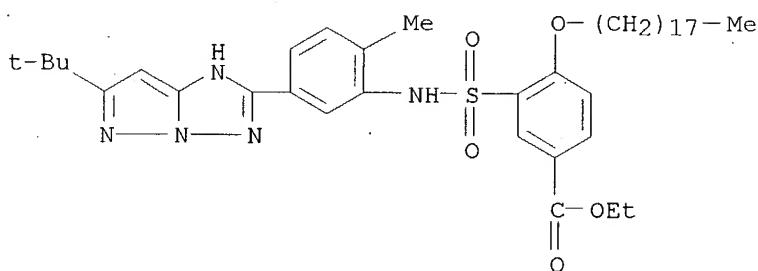


IT 163588-19-0P 163588-22-5P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (chlorination; **pyrazolotriazole photog.**
coupler manufacture)

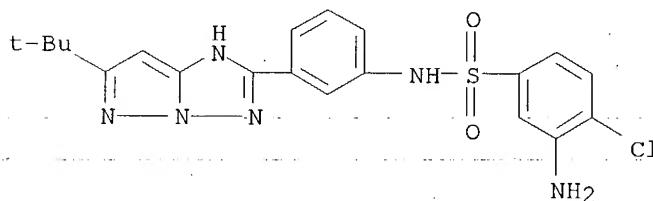
RN 163588-19-0 HCA

CN Benzoic acid, 3-[[[5-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-, ethyl ester (9CI) (CA INDEX NAME)



RN 163588-22-5 HCA

CN Benzenesulfonamide, 3-amino-4-chloro-N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)

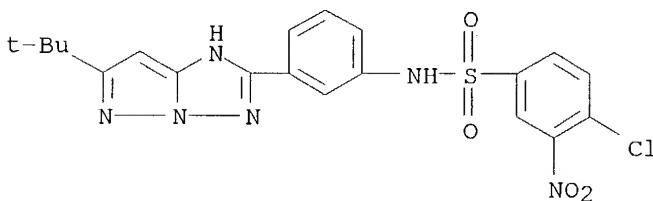


IT 163588-21-4P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (hydrogenation; **pyrazolotriazole photog.**
coupler manufacture)

RN 163588-21-4 HCA

CN Benzenesulfonamide, 4-chloro-N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-nitro- (9CI) (CA INDEX NAME)



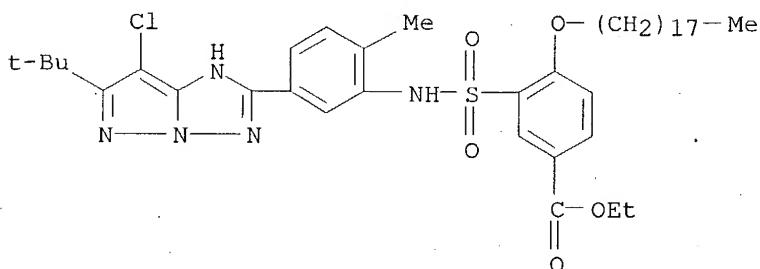
IT 163588-20-3P 163588-23-6P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (**pyrazolotriazole photog.** **coupler** manufacture)

RN 163588-20-3 HCA

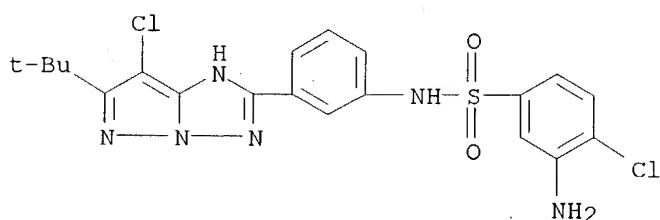
CN Benzoic acid, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-, ethyl ester (9CI) (CA INDEX NAME)



RN 163588-23-6 HCA

CN Benzenesulfonamide, 3-amino-4-chloro-N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



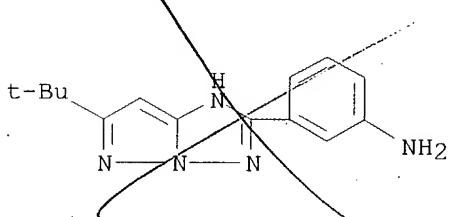
IT 128726-26-1 163588-17-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(pyrazolotriazole photog. coupler manufacture)

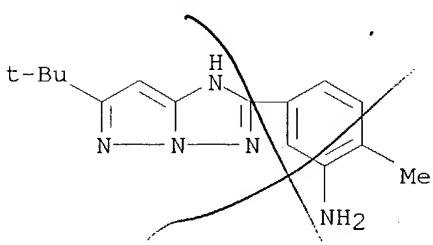
RN 128726-26-1 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



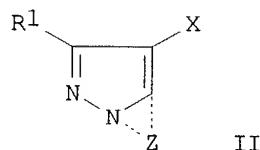
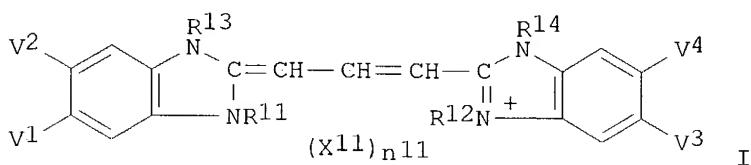
RN 163588-17-8 HCA

CN Benzenamine, 5-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)



122:302903 Silver halide color photographic material with high sensitivity, reduced fog, and good color reproducibility. Watanabe, Toshuki; Inoe, Akyuki (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07028209 A2 19950131 Heisei, 71 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1993-193885 19930712.

GI



AB The title material contains I [V1-4 = H, electron withdrawing group; R11 = $(CH_2)_l(CF_2)mH$, $(CH_2)_l(CF_2)mF$; l = 0, 1; m = 1-8; R12-14 = $(CH_2)_p(CF_2)qH$, $(CH_2)_p(CF_2)qF$, C \leq 10 alkyl, alkenyl; p = 0, 1; q = 1-8; X11 = counter ion; n11 = 0, 1] and a magenta coupler(s) II [R1 = H, substituent; Z = non-metal atoms forming 5-membered azo-ring; X = H, group leaving upon a coupling reaction with an oxidized developing agent] in a green-sensitive emulsion layer(s).

IC ICM G03C007-38

ICS G03C001-09; G03C001-18

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 41

IT 126920-89-6 **143151-76-2** 153555-12-5 154042-70-3

155218-29-4 156321-98-1 158600-57-8 163076-18-4 163076-19-5

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. magenta coupler in green-sensitive layer)

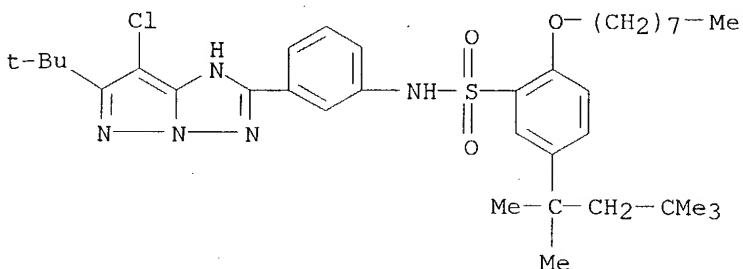
IT **143151-76-2**

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. magenta coupler in green-sensitive layer)

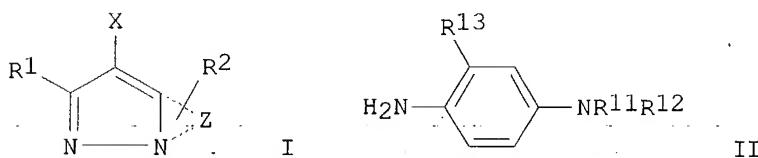
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 24 OF 38 HCA COPYRIGHT 2004 ACS on STN
 122:302898 Silver halide color **photographic** material and
 image-forming method. Makado, Satoshi; Ookawachi, Susumu (Konishiroku
 Photo Ind, Japan). Jpn. Kokai Tokkyo Koho JP 06347957 A2 19941222
 Heisei, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-140637
 19930611.

GI



- AB The material has Ag halide grains containing ≥ 90 mol% AgCl in ≥ 1 of the emulsion layers, magenta **coupler** I (Z = nonmetal atoms to form 5-membered **azole** ring having 3 N atoms; R₁ = substituent; R₂ = (substituted) aryl; X = H, releasing group by **coupling** with oxidized developer) in ≥ 1 of the emulsion layers, and the material reproduces dot images with main gradation 1.7-2.8 at min. d. (+0.5)-(+1.1) of images of each photosensitive layers. The material is developed by the developer containing II (R₁₁ = C₁₋₄ alkyl; R₁₂ = C₂₋₄ (branched) alkylene; R₁₃ = H, C₁₋₄ alkyl). Color proofs are manufactured by using the **photog.** material. The material is useful for manufacture color proofs.
- IC ICM G03C007-38
 ICS G03C001-035; G03C007-413; G03F003-10
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **pyrazolotriazole** magenta **coupler** photog;
 developer photog phenylenediamine deriv; color proof manuf
 photog
- IT **Photographic** developers
 (photog. developer containing phenylenediamine derivative)
- IT **Photographic** couplers
 (**pyrazolotriazole** photog magenta **coupler**)
- IT 92-65-9 17625-86-4 107885-42-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photog. developer containing phenylenediamine derivative)
- IT 106719-78-2 116313-62-3 151745-04-9 162925-72-6

162925-73-7 162925-74-8 162925-75-9 162925-76-0 162925-77-1
 162925-78-2 162925-79-3

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(pyrazolotriazole photog magenta coupler)

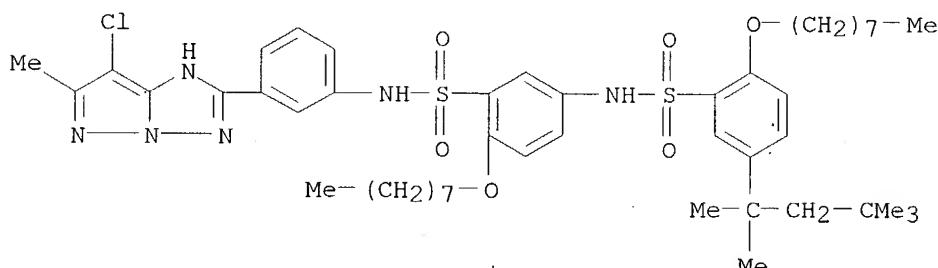
IT 116313-62-3 151745-04-9 162925-79-3

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(pyrazolotriazole photog magenta coupler)

RN 116313-62-3 HCA

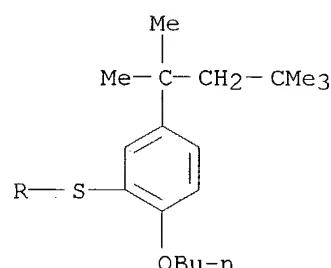
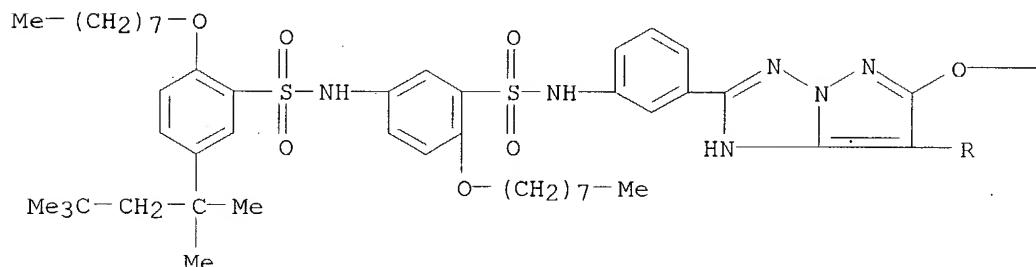
CN Benzenesulfonamide, N-[3-[[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 151745-04-9 HCA

CN Benzenesulfonamide, N-[3-[[[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

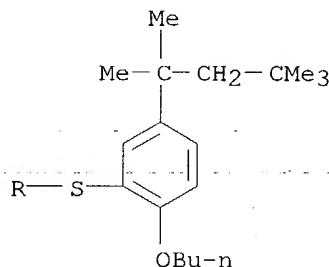
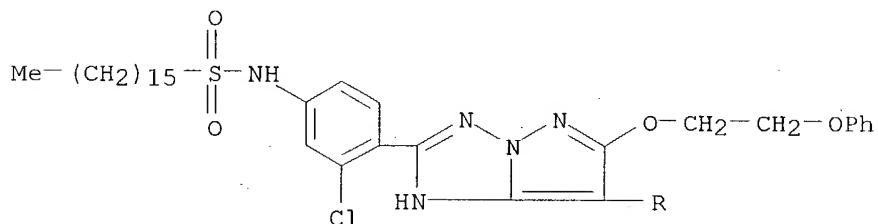


PAGE 1-B

—CH₂—CH₂—OPh

RN 162925-79-3 HCA

CN 1-Hexadecanesulfonamide, N-[4-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-3-chlorophenyl]- (9CI) (CA INDEX NAME)

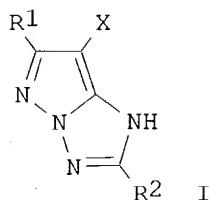


L24 ANSWER 25 OF 38 HCA COPYRIGHT 2004 ACS on STN

122:226663 High-sensitivity silver halide photographic material.

Watanabe, Toshuki; Kawagishi, Toshio; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06301173 A2 **19941028**
Heisei, 53 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-110013
19930413.

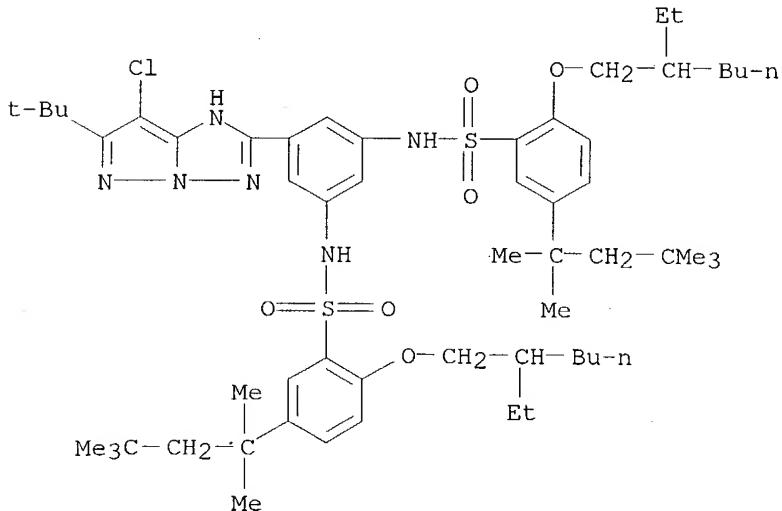
GI



AB In the title photog. material ≥ 1 of the Ag halide emulsion layers contains the coupler [I; R1 = tertiary alkyl; X

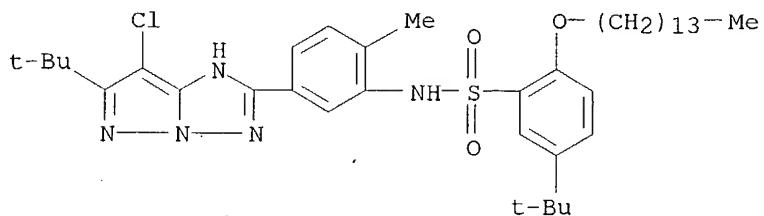
= H, group releasable on reacting with oxidized developing agent; R2 = Ph, CR21R22R23 (R21 = aliphatic, aryl, heterocyclyl, CN, OH, NO₂, COOH, alkoxy, aryloxy, heterocycloxy, silyloxy, acyloxy, etc., R22 = H, R21; R23 = aliphatic, aryl) and tabular Ag halide grains with aspect ratio ≥ 3.

- IC ICM G03C007-38
 ICS G03C001-035; G03C007-392
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 ST high sensitivity **photog** material **coupler**;
pyrazolotriazole magenta coupler
 IT **Photographic emulsions**
 Photographic films
 (high-sensitivity)
 IT **Photographic couplers**
 (magenta, for high-sensitivity **photog**. emulsions)
 IT 119-47-1 4081-14-5 58331-03-6 154201-12-4 162247-84-9
 RL: DEV (Device component use); USES (Uses)
 (for high-sensitivity **photog**. emulsions)
 IT 162247-78-1 162247-79-2 162247-80-5
 162247-81-6 162247-82-7 162247-83-8
 RL: DEV (Device component use); USES (Uses)
 (magenta **coupler**; for high-sensitivity **photog**.
 emulsions)
 IT 162247-77-0
 RL: DEV (Device component use); USES (Uses)
 (magenta **coupler**; high-sensitivity **photog**. film
 containing)
 IT 162247-78-1 162247-79-2 162247-80-5
 RL: DEV (Device component use); USES (Uses)
 (magenta **coupler**; for high-sensitivity **photog**.
 emulsions)
 RN 162247-78-1 HCA
 CN Benzenesulfonamide, N,N'-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-1,3-phenylene]bis[2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



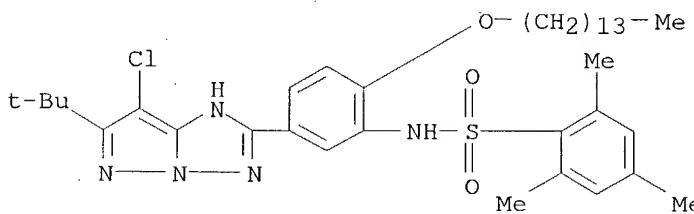
- RN 162247-79-2 HCA
 CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]-2-methylphenyl]-5-(1,1-dimethylethyl)-2-(tetradecyloxy)-(9CI) (CA INDEX NAME)



RN 162247-80-5 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(tetradecyloxy)phenyl]-2,4,6-trimethyl-(9CI) (CA INDEX NAME)

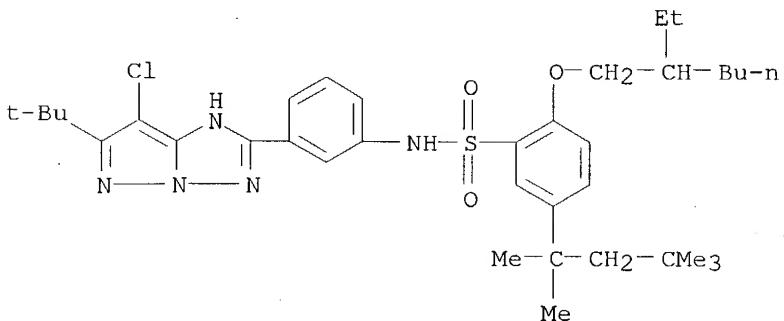


IT 162247-77-0

RL: DEV (Device component use); USES (Uses)
(magenta coupler; high-sensitivity photog. film containing)

RN 162247-77-0 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[2-ethylhexyl]oxy]-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 26 OF 38 HCA COPYRIGHT 2004 ACS on STN

120:311342 Silver halide color photographic material. Haijima, Akimitsu; Yoshioka, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). U.S. US 5258271 A 19931102, 86 pp. (English). CODEN: USXXAM. APPLICATION: US 1992-945928 19920917. PRIORITY: JP 1991-265329 19910917.

AB There is disclosed a silver halide color photog. material having a photosensitive silver halide emulsion layer on a support, which comprises, in said photosensitive silver halide emulsion layer, a coupler selected

from the group consisting of yellow dye-forming couplers and a quenching coupler selected from the group consisting of cyan dye-forming couplers and magenta dye-forming couplers or a quenching dye obtained by a coupling reaction of above couplers with the oxidized product of a photog. developing agent.

IC ICM G03C001-46

NCL 430503000

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 31188-91-7 131169-88-5 155255-10-0 155255-11-1

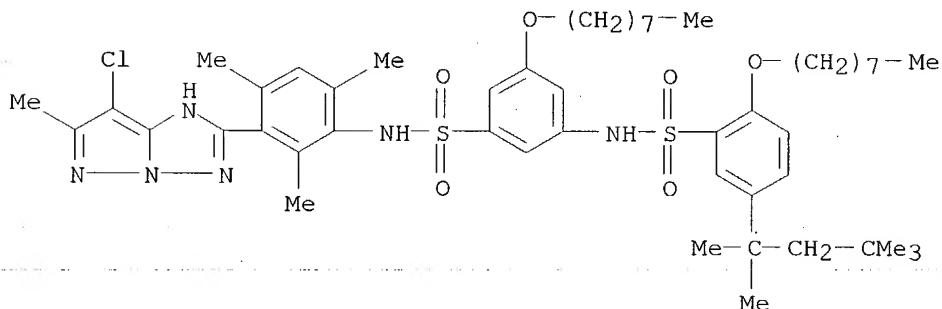
RL: USES (Uses)
(quenching photog. magenta coupler)

IT 155255-11-1

RL: USES (Uses)
(quenching photog. magenta coupler)

RN 155255-11-1 HCA

CN Benzenesulfonamide, N-[3-[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]amino]sulfonyl]-5-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

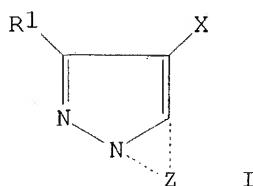


L24 ANSWER 27 OF 38 HCA COPYRIGHT 2004 ACS on STN

120:257296 Silver halide color photographic material with excellent graininess and color reproducibility and method for forming image.

Sakagami, Megumi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05100382 A2 19930423 Heisei, 93 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-289537 19911009.

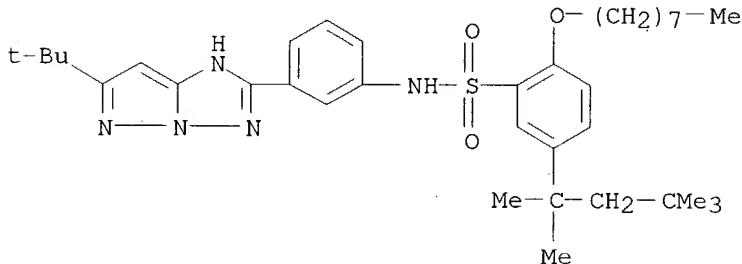
GI



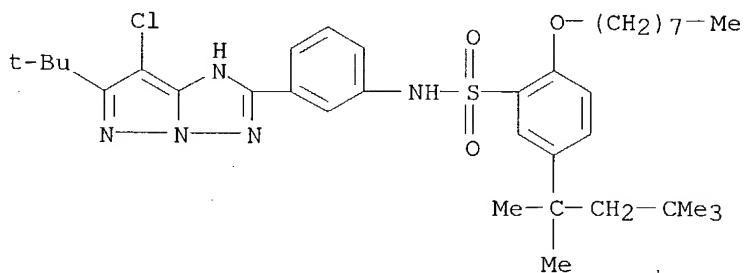
AB In a Ag halide color photog. material having ≥2 green-sensitive Ag halide emulsion layers with different sensitivities on

a support, the green-sensitivity Ag halide emulsion layer with the lower sensitivity comprises ≥ 1 **coupler I** [R1 = H, substituent; Z = nonmetallic at_n group forming a 5-membered **azole** ring containing 2-4 Ns; the **azole** ring may contain a substituent (including condensation ring); X = moiety released during **coupling** reaction with an oxidized product of a development agent, but not H] and the green-sensitivity Ag halide emulsion layer having the higher sensitivity comprises ≥ 1 **coupler I** [X = H; R1 = same as above]. The title method carries out color development after black-and-white development, in which pH of the color developer is ≥ 11 .

IC ICM G03C007-38
 ICS G03C005-50; G03C007-20; G03C007-407
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 ST silver halide color **photog** material; **azole** deriv
 magenta **coupler**
 IT **Photographic** development
 (color, pH of solution in)
 IT **Photographic** **couplers**
 (magenta, **azole** derivative)
 IT 104660-32-4 128287-61-6 **128747-53-5** 137605-49-3
143151-76-2 146456-99-7 151070-14-3 154037-61-3
 154042-70-3 **154252-80-9** 154252-81-0 154252-82-1
154252-83-2 154252-84-3 154252-85-4 154252-86-5
 RL: USES (Uses)
 (silver halide color **photog.** material containing)
 IT **128747-53-5** **143151-76-2** **154252-80-9**
154252-83-2
 RL: USES (Uses)
 (silver halide color **photog.** material containing)
 RN 128747-53-5 HCA
 CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



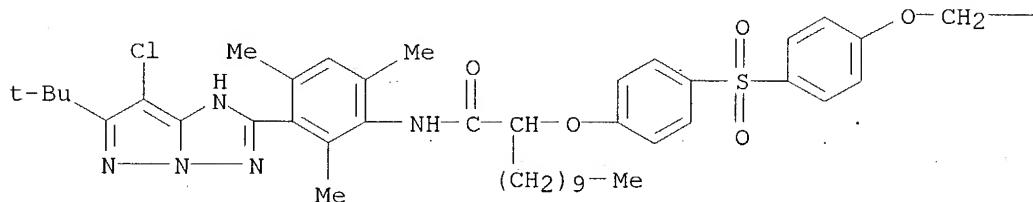
RN 143151-76-2 HCA
 CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 154252-80-9 HCA

CN Dodecanamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2,4,6-trimethylphenyl]-2-[4-[(4-(phenylmethoxy)phenyl)sulfonyl]phenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

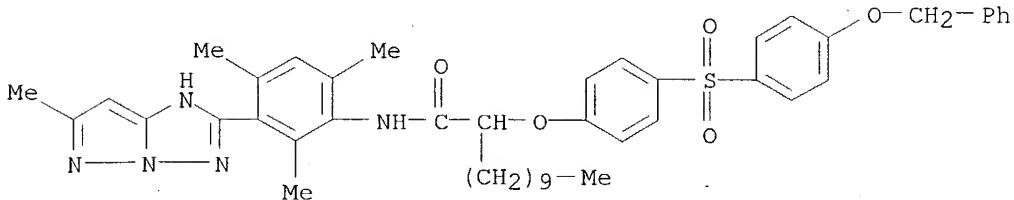


PAGE 1-B

--- Ph

RN 154252-83-2 HCA

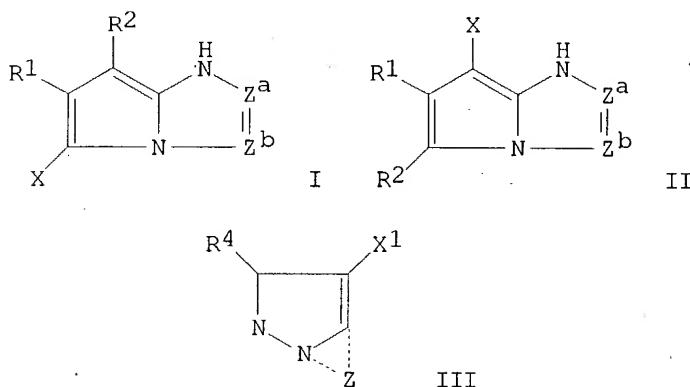
CN Dodecanamide, 2-[4-[(4-(phenylmethoxy)phenyl)sulfonyl]phenoxy]-N-[2,4,6-trimethyl-3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 28 OF 38 HCA COPYRIGHT 2004 ACS on STN

120:148778 Silver halide color photographic material. Naruse,
 Hideaki; Suzuki, Makoto (Fuji Photo Film Co., Ltd., Japan). Eur. Pat.
 Appl. EP 544322 A1 19930602, 88 pp. DESIGNATED STATES: R: DE,
 FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120295
 19921127. PRIORITY: JP 1991-335905 19911127.

GI



AB A Ag halide color **photog.** material capable of providing a dye image having excellent color reproducibility, less color fading, and good balance of cyan, magenta, and yellow colors comprises a support and provided thereon cyan **coupler-**, magenta **coupler-**, and yellow **coupler**-containing Ag halide emulsion layers, wherein the cyan **coupler**-containing Ag halide emulsion layer contains ≥ 1 cyan **coupler** selected from the group of compds. represented by the formulas I and II ($Z_a, Z_b = CR_3$ or N, provided that one of Z_a and Z_b is N and the other is CR_3 ; R_1, R_2 = an electron-attracting group having a Hammett's substituent constant σ_p of ≥ 0.2 and the sum of the σ_p values of R_1 and R_2 is ≥ 0.65 ; R_3 = H or a substituent group; X = H or a group capable of splitting off upon reaction with an oxidized aromatic primary amine color developing agent) which may be a part of a polymer or copolymer and the magenta **coupler**-containing Ag halide emulsion layer contains a magenta **coupler** represented by the formula III (R_4 = H or a substituent group; Z = a group of nonmetallic atoms necessary to form a 5-membered **azole** ring containing 2-3 N atoms; X_1 = H or a group capable of splitting off upon reaction with an oxidized aromatic primary amine color developing agent).

IC ICM G03C007-32

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color **photog** material; **pyrrolotriazole** cyan **coupler** color **photog**; **pyrazoloazole** magenta **coupler** color **photog**

IT **Photographic** emulsions
(for forming dye images having excellent color reproducibility and reduced color fading)

IT **Photographic** couplers
(cyan, **pyrrolotriazoles** as)

IT **Photographic** couplers
(magenta, **pyrazoloazoles** as)

IT 143324-24-7	143779-35-5	143779-39-9	143795-04-4	150982-36-8
150982-37-9	151019-64-6	151019-65-7	151019-66-8	152793-66-3
152793-67-4	152793-68-5	152793-69-6	152793-70-9	152793-71-0
152793-72-1	152793-73-2	152793-74-3	152793-75-4	

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler, for forming dye images

having excellent color reproducibility and reduced color fading)

IT 111244-17-8 124351-77-5 133000-75-6 **149311-40-0**
149311-41-1 **149311-42-2** 151288-35-6
152793-76-5 **152793-77-6** **152793-78-7**
152793-79-8 **152793-80-1** **152793-81-2**
152793-82-3 152793-83-4 152793-84-5 152793-85-6
152793-86-7 152793-87-8 152793-88-9 152793-89-0 152793-90-3
152793-91-4

RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**, for forming dye images
having excellent color reproducibility and reduced color fading)

IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
150982-33-5P 150982-34-6P 152586-70-4P 152586-72-6P 152586-73-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction of, in preparing **photog.** cyan
coupler)

IT 143324-37-2P 143779-40-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as **photog.** cyan **coupler** for
forming dye images having excellent color reproducibility and reduced
color fading)

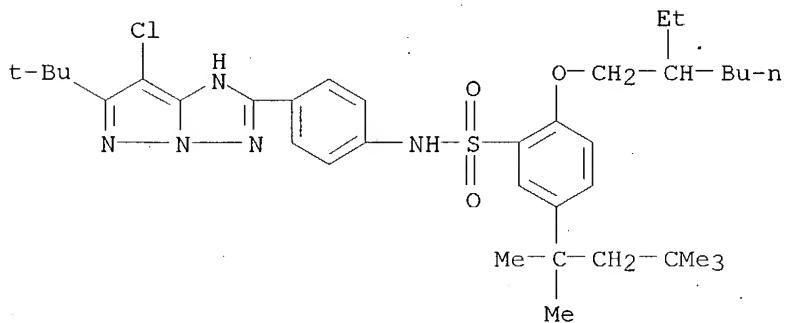
IT 70-23-5 99067-72-8 109871-03-6 125666-25-3, 1H-Pyrrole-3,4-
dicarbonitrile 140859-54-7 152586-69-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparing **photog.** cyan **couplers**)

IT **149311-40-0** **149311-41-1** **149311-42-2**
152793-76-5 **152793-77-6** **152793-78-7**
152793-79-8 **152793-80-1** **152793-81-2**
152793-82-3

RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**, for forming dye images
having excellent color reproducibility and reduced color fading)

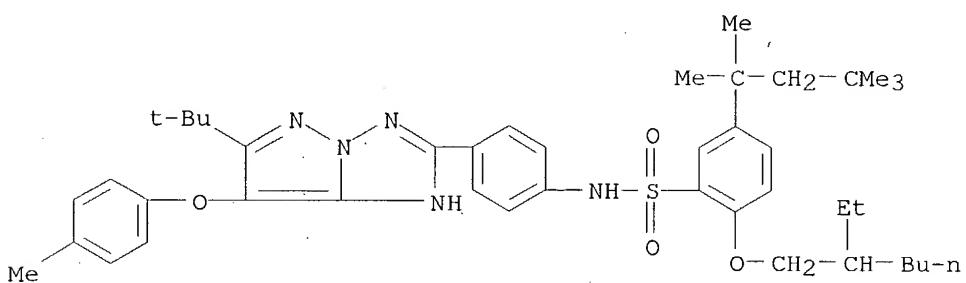
RN 149311-40-0 HCA

CN Benzenesulfonamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 149311-41-1 HCA

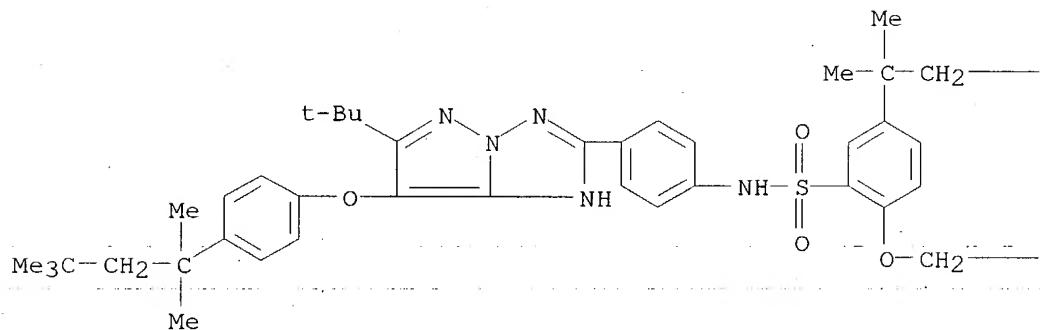
CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-(4-methylphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



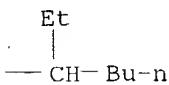
RN 149311-42-2 HCA

CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

PAGE 1-A

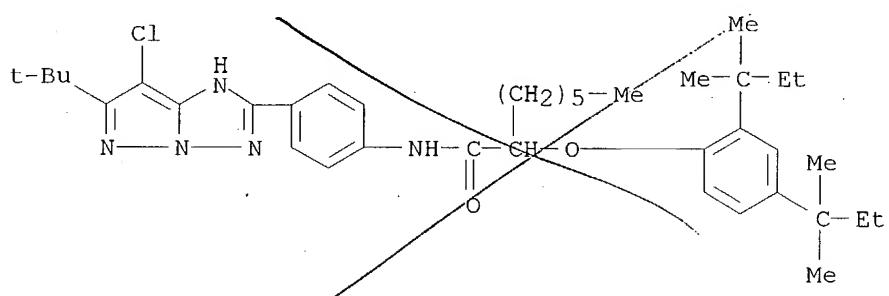


PAGE 1-B

— CMe₃

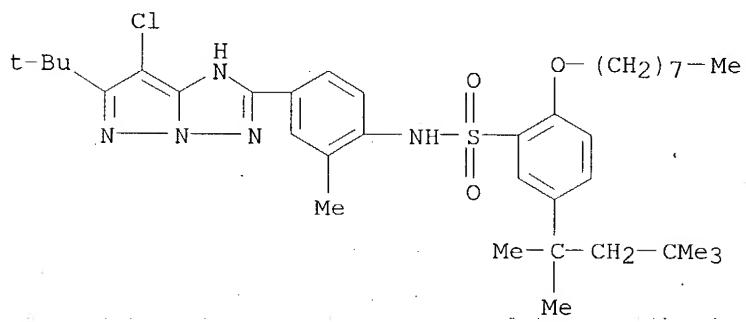
RN 152793-76-5 HCA

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-(9CI) (CA INDEX NAME)



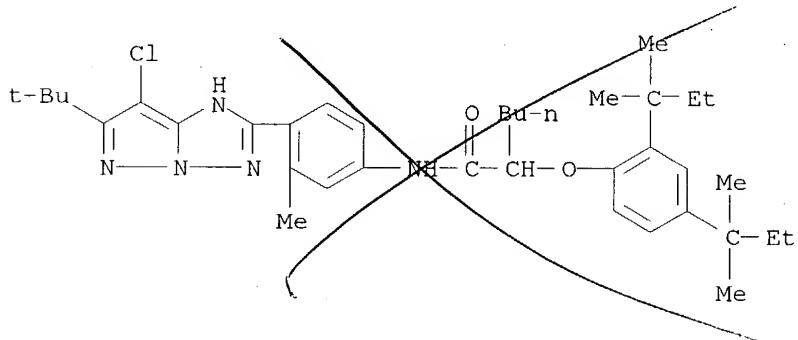
RN 152793-77-6 HCA

CN Benzenesulfonamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



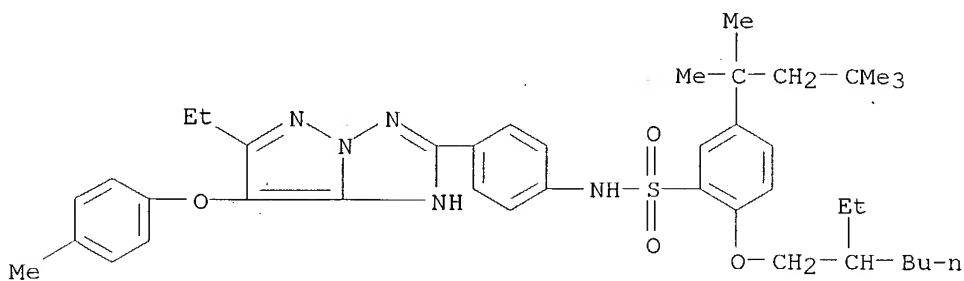
RN 152793-78-7 HCA

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-3-methylphenyl]-(9CI) (CA INDEX NAME)



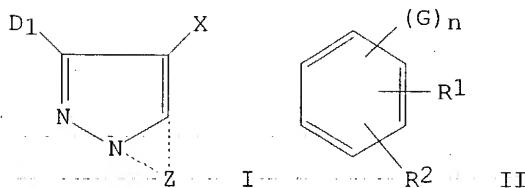
RN 152793-79-8 HCA

CN Hexadecanamide, N-[3-[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2,4,6-trimethylphenyl]amino]sulfonyl]phenyl]-(9CI) (CA INDEX NAME)



L24 ANSWER 29 OF 38 HCA COPYRIGHT 2004 ACS on STN
 120:120559 Silver halide color **photographic** material. Nagaoka,
 Satoshi; Yamanouchi, Junichi (Fuji Photo Film Co., Ltd., Japan). Jpn.
 Kokai Tokkyo Koho JP 04289853 A2 19921014 Heisei, 67 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-77111 19910318.

GI



AB The title Ag halide color **photog.** material comprises a magenta **coupler** I [D1 = H, substituent; Z = 5-membered **azole** ring containing 2-3 N; the **azole** ring may contain a substituent; X = H, moiety released upon **coupling** reaction with an oxidized developing agent] and a polymer obtained via condensation reaction of II [G = hydroxy, carboxyamido, sulfonamido, moiety forming OH upon hydrolysis; n = ≥2] with R3R4C:O and CR3R4R5R6 [R1,2 = H, substituent; R3,4 = H, alkyl, aryl, aralkyl, heterocyclyl, acyl, carboxy, formyl; R5,6 = alkyl; and R5 and R6 may form a ring] in the presence of an acid or an alkaline catalyst.

IC ICM G03C007-38
 ICS G03C007-392

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **pyrazoloazole** magenta **coupler**; silver halide color **photog** material

IT **Photographic couplers**

(magenta, **pyrazoloazoles** as)

IT 98120-97-9 98155-25-0 105343-19-9 110884-43-0 116313-27-0
124079-66-9 126920-89-6 131169-88-5 141741-54-0

143151-76-2 143151-79-5 **144337-85-9**

RL: TEM (Technical or engineered material use); USES (Uses)
 (**photog.** magenta **coupler**)

IT 26353-95-7 38333-84-5 129471-91-6 132722-66-8 132722-67-9

133716-64-0 133716-65-1 133716-66-2 143155-28-6 148307-36-2
 148307-37-3 148307-40-8 148721-73-7 148721-74-8 148721-75-9
 148721-76-0 148721-77-1 148721-78-2 148745-66-8

RL: USES (Uses)

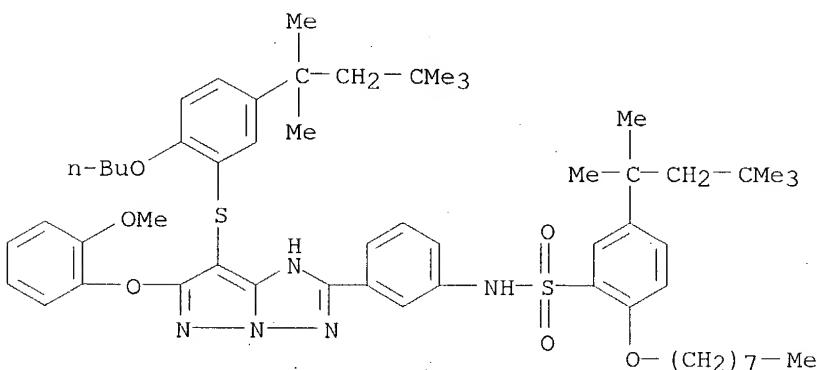
(silver halide color photog. materials containing)

IT 124079-66-9 143151-76-2 144337-85-9

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler)

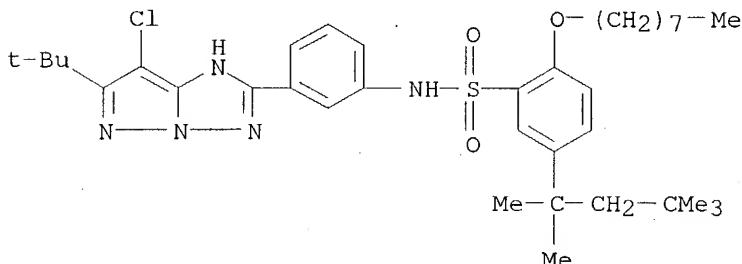
RN 124079-66-9 HCA

CN Benzenesulfonamide, N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



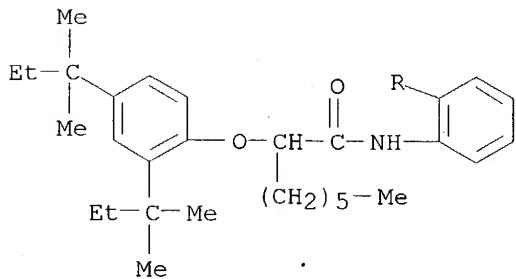
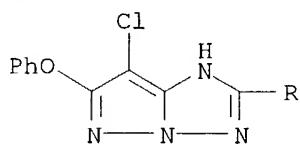
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



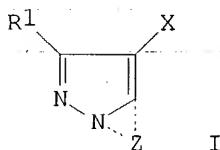
RN 144337-85-9 HCA

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-(7-chloro-6-phenoxy-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-(9CI) (CA INDEX NAME)



L24 ANSWER 30 OF 38 HCA COPYRIGHT 2004 ACS on STN
 118:112907 Silver halide color **photographic** material. Urata,
 Yukihide (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 04248548 A2 19920904 Heisei, 43 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1991-33457 19910204.

GI



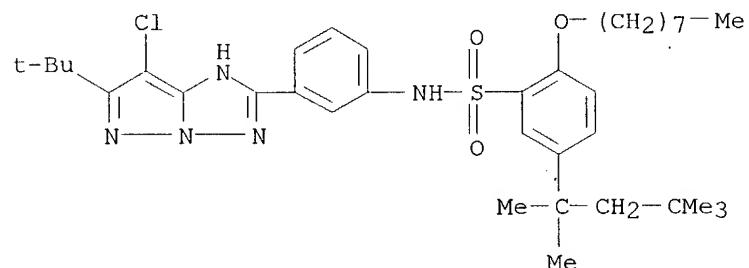
- AB In the title material comprising blue-, green-, and red-sensitive silver halide emulsion layers, at least one of the silver halide emulsion layers contains one or more **photog. couplers** represented by
 I. For I, R1 = H, a substituent group; Z = nonmetallic atoms for forming a (substituted) 5-membered **azole** ring containing 2 or 3 N atoms; X = H, a group to be released upon **coupling** reaction with an oxidized developing agent. Silver halide emulsions in the title material are chemical sensitized in the presence of $\geq 10^{-4}$ mol Pd compound/mol silver halide. The title material gives excellent color reproduction
- IC ICM G03C007-38
 ICS G03C001-09
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST silver halide color **photog** material; **pyrazolotriazole photog coupler**
- IT **Photographic couplers**
 (pyrazolotriazole derivs. as)
- IT 13820-40-1
- RL: USES (Uses)
 (chemical sensitization of silver halide **photog.** emulsions in presence of)

IT 119179-28-1 125739-11-9 130287-07-9 141741-54-0 **143151-76-2**
 143151-77-3 **145601-05-4** 145601-06-5 145601-07-6
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photog. coupler)

IT **143151-76-2 145601-05-4**
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photog. coupler)

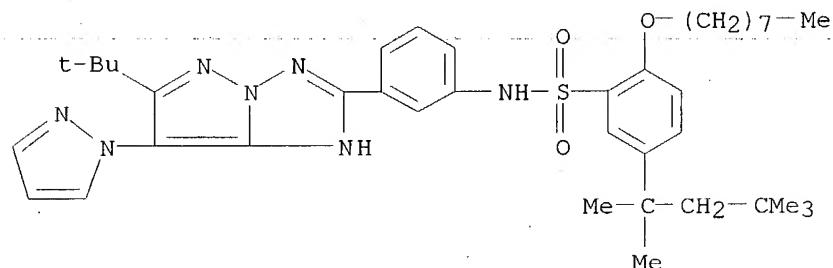
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



RN 145601-05-4 HCA

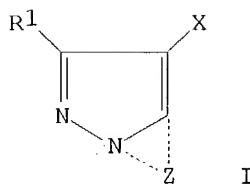
CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-7-(1H-pyrazol-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 31 OF 38 HCA COPYRIGHT 2004 ACS on STN

118:90662 Silver halide color photosensitive material for stereophotography.
 Shiba, Keisuke; Sato, Tadahisa (Fuji Photo Film Co., Ltd., Japan). Jpn.
 Kokai Tokkyo Koho JP 03278054 A2 **19911209** Heisei, 57 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1990-76972 19900328.

GI



AB The title material (which comprises a support having thereon magenta color-forming Ag halide photosensitive layers, cyan color-forming Ag halide photosensitive layers, and yellow color-forming Ag halide photosensitive layers) contains a **coupler** represented by general structure I [R1 = H, a substituent; Z = nonmetallic atoms for forming a 5-membered **azole** ring which contains 2 or 3 N; the said **azole** ring may have substituents (which may form a fused ring); X = H, a group to be released upon **coupling** reaction with an oxidized color developing agent]. Also claimed is a method for color stereophotog. image formation by the use of the title material. The title material gives high-quality images.

IC ICM G03C007-38

ICS G03C007-14; G03C007-30; G03C007-392; G03C009-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color stereophotog material; **pyrazolotriazole coupler** color stereophotog material

IT **Photographic couplers**

(magenta, **pyrazolotriazoles** as)

IT **Photography**

(stereoscopic, color, silver halide photosensitive materials for)

IT 98120-97-9 98155-25-0 104660-32-4 104660-33-5 105343-19-9

110729-29-8 110884-43-0 115007-10-8 116313-27-0 119311-63-6

124079-66-9 124644-67-3 **126512-93-4** 126920-89-6

131169-88-5 **131851-81-5** **143151-76-2** 143284-48-4

RL: USES (Uses)

(magenta **coupler**, in color stereophotog. material)

IT **124079-66-9** **126512-93-4** **131851-81-5**

143151-76-2

RL: USES (Uses)

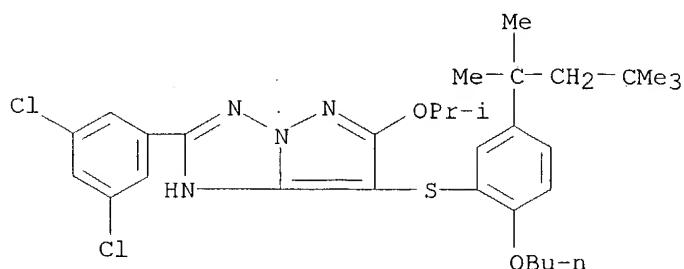
(magenta **coupler**, in color stereophotog. material)

RN 124079-66-9 HCA

CN Benzenesulfonamide, N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

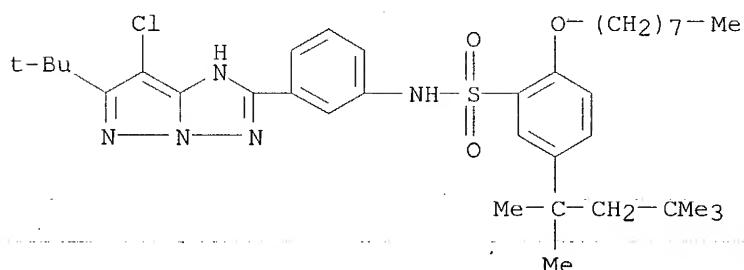
RN 131851-81-5 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,5-dichlorophenyl)-6-(1-methylethoxy)-(9CI) (CA INDEX NAME)



RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 32 OF 38 HCA COPYRIGHT 2004 ACS on STN

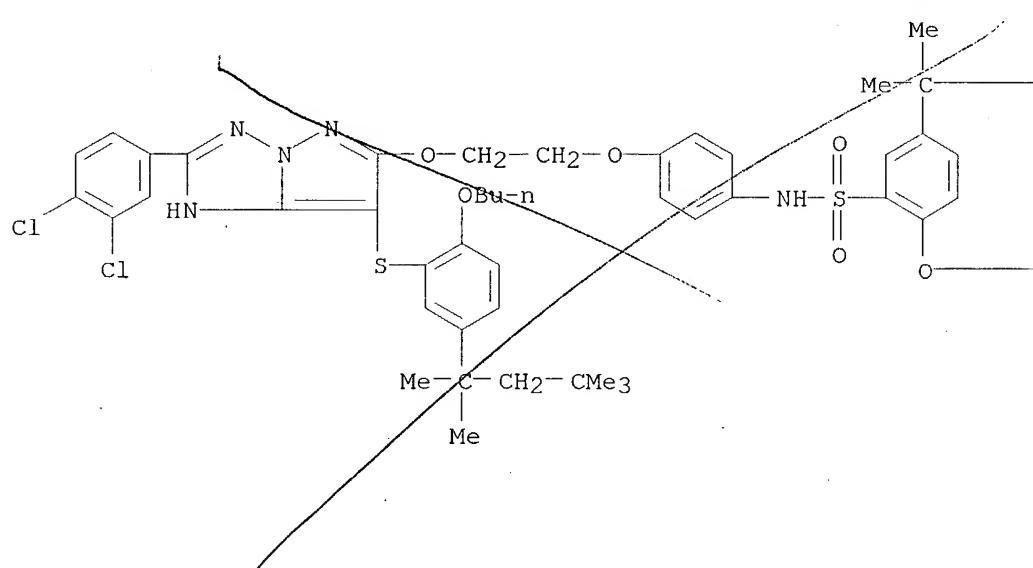
117:160769 Silver halide color **photographic** material containing yellow and magenta **couplers**. Sakurazawa, Mamoru; Kobayashi, Hidetoshi (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 486965 A1 19920527, 95 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1991-119527 19911115. PRIORITY: JP 1990-312406 19901117.

GI For diagram(s), see printed CA Issue.

AB A Ag halide color **photog.** material which has excellent color reproduction and good stability during processing comprises, on a support, at least one each of blue-, green-, and red-sensitive Ag halide emulsion layers, wherein ≥ 1 of acylacetamide derivative yellow **couplers** having the acyl group represented by the formula I (R_1 = a monovalent group; Q_1 = a group of atoms which, together with C, form a 3- to 5-membered hydrocarbyl ring or a 3- to 5-membered heterocyclic ring which has within the ring ≥ 1 heteroatom selected from the group consisting of N, O, S, and P, with the proviso that R_1 is not a H atom, is not linked to Q_1 , and does not form a ring) is included in the blue-sensitive Ag halide emulsion layers and ≥ 1 of magenta **couplers** represented by the formula II (R_2 = H or a substituent group; R_3 = H or a **coupling-off** group; Q_2 = a group of atoms necessary to form a 5-membered **azole** ring containing 2-4 N atoms) is included in the green-sensitive Ag halide emulsion layers.

IC ICM G03C007-32
ICS G03C007-36
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST silver halide color photog material; acylacetamide deriv yellow photog coupler; pyrazoloazole magenta photog coupler
IT Photographic emulsions
(color, containing acylacetamide derivative yellow dye formers and pyrazoloazole magenta dye formers for improved color reproduction)
IT Photographic couplers
(magenta, pyrazoloazole, used in conjunction with acylacetamide derivative couplers for improved color reproduction)
IT Photographic couplers
(yellow, acylacetamide derivative, used in conjunction with pyrazoloazole couplers for improved color reproduction)
IT 104660-33-5 124644-67-3 126512-93-4 126920-89-6
141721-28-0 143151-76-2 143284-47-3 143284-48-4
143284-49-5
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler, used in conjunction with acylacetamide derivative yellow couplers for improved color reproduction)
IT 142257-46-3 142257-49-6 142257-57-6 143182-60-9 143284-44-0
143284-45-1 143284-46-2
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler, used in conjunction with pyrazoloazole magenta couplers for improved color reproduction)
IT 126512-93-4 143151-76-2
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler, used in conjunction with acylacetamide derivative yellow couplers for improved color reproduction)
RN 126512-93-4 HCA
CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

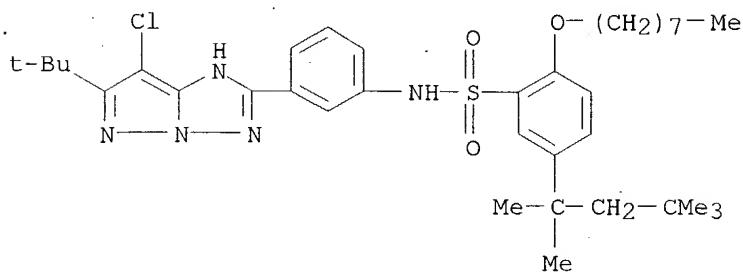
PAGE 1-A



PAGE 1-B

— CH₂— CMe₃— (CH₂)₇— Me

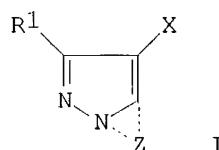
RN 143151-76-2 HCA
 CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 33 OF 38 HCA COPYRIGHT 2004 ACS on STN
 117:121428 Silver halide color photographic material. Usui, Hideo;
 Sakagami, Megumi (Fuji Shashin Film K. K., Japan). Jpn. Kokai Tokkyo Koho
 JP 04080751 A2 19920313 Heisei, 41 pp. (Japanese). CODEN:

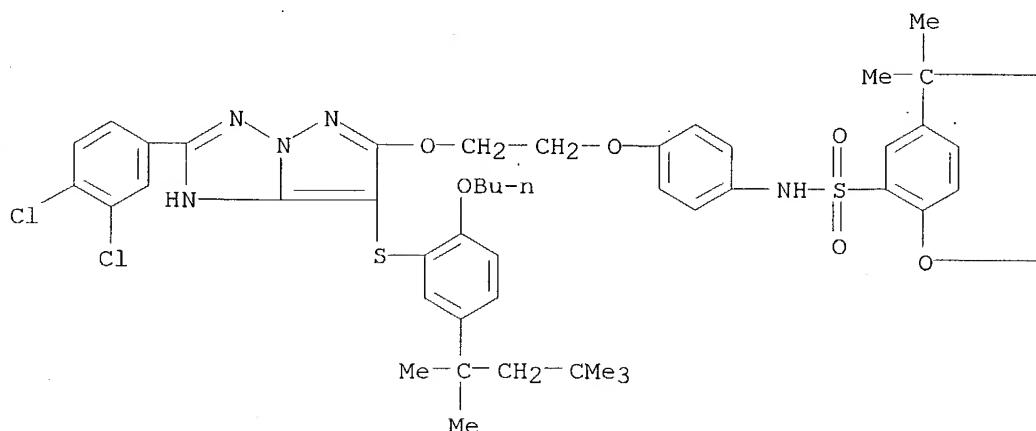
JKXXAF. APPLICATION: JP 1990-194642 19900723.

GI



- AB The title material which comprises a support having thereon ≥ 1 red-, green-, and blue-sensitive Ag halide emulsion layers contains ≥ 1 magenta **coupler** represented by general structure I [R₁ = H, a substituent; Z = nonmetallic atoms for forming a 5-membered **azole** ring having 2 to 3 N atoms; the **azole** ring may have substituents or fused rings; X = H, a group to be released upon **coupling** reaction with an oxidized developing agent] and ≥ 1 anionic surfactant. The title material gives excellent color reproduction and sharp images.
- IC ICM G03C007-38
ICS G03C007-392
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST silver halide color **photog** material; excellent color reprodn **photog** material; sharp image **photog** material;
pyrazolotriazole coupler photog material;
surfactant color **photog** material
- IT **Photographic couplers**
(magenta, **pyrazolotriazole** derivs. as)
- IT 98155-25-0 104660-33-5 105343-19-9 **126512-93-4** 137581-79-4
140474-24-4 141721-28-0 141741-54-0 **143151-76-2**
143151-77-3 143151-78-4 143151-79-5
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- IT 2673-22-5 114306-89-7 138088-90-1 138594-64-6 143151-75-1
RL: USES (Uses)
(silver halide color **photog.** materials containing)
- IT **126512-93-4 143151-76-2**
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- RN 126512-93-4 HCA
- CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

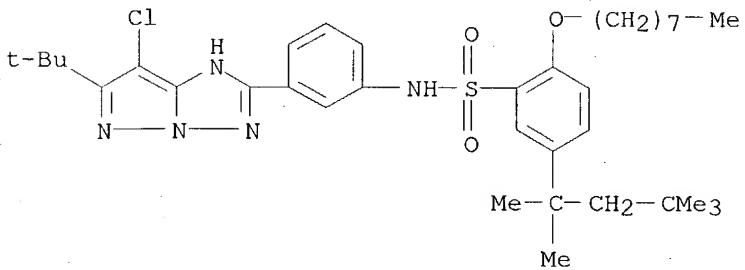


PAGE 1-B

 $\text{---CH}_2\text{---CMe}_3$ $\text{---(CH}_2\text{)}_7\text{---Me}$

RN 143151-76-2 HCA

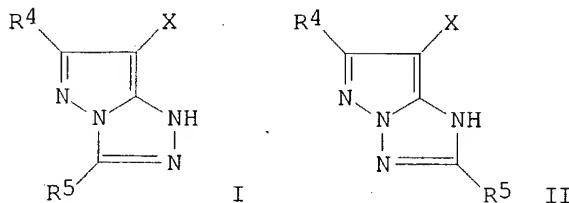
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylpropyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI). (CA INDEX NAME)



L24 ANSWER 34 OF 38 HCA COPYRIGHT 2004 ACS on STN
 113:201197 Color photographic material. Kawagishi, Toshio; Nakajo,
 Kiyoshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 01302249 A2 19891206 Heisei, 38 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1989-50244 19890302.

GI



AB In the title material, a Ag halide emulsion layer or its adjacent layer contains a **pyrazoloazole magenta coupler** of the formula A(CR₁R₂R₃)_n [A = a **pyrazoloazole magenta coupler** moiety; R₁ = alkyl; R₂, R₃ = H, substituent; R₂ and R₃ can be H at the same time; n = 1-3] excluding the following **couplers** I and II [X = halogen; R₄ = alkyl; R₅ = alkyl; ≥1 of R₄ and R₅ = CR₁R₂R₃; R₁ = alkyl; R₂, R₃ = H, substituent; ≥1 of R₂ and R₃ = substituent; and a polymer **coupler** is excluding from the 1st magenta **coupler**].

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **pyrazoloazole magenta coupler color photog**
IT **Photographic couplers**(magenta, **pyrazoloazole** derivative as)

IT 104433-84-3 104660-32-4 128726-19-2

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler)

IT 104446-29-9P 128747-53-5P

RL: PREP (Preparation)

(preparation of, as photog. magenta coupler)

IT 29509-06-6 56367-24-9 82560-12-1 104433-86-5 104433-87-6

109871-07-0 116313-68-9 128726-22-7 128726-23-8 128726-24-9

128726-25-0 128726-26-1 128747-53-5

RL: RCT (Reactant); RACT (Reactant or reagent)

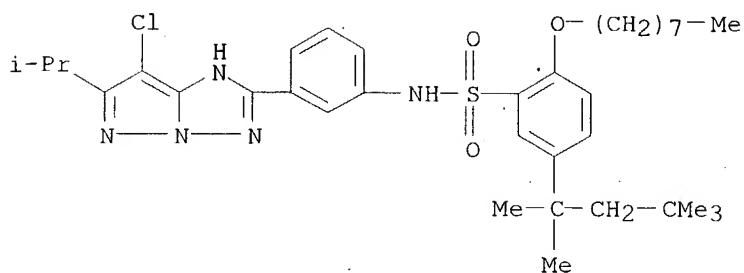
(reaction of, **pyrazoloazole** magenta photog.
coupler from)

IT 128726-19-2

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler)

RN 128726-19-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



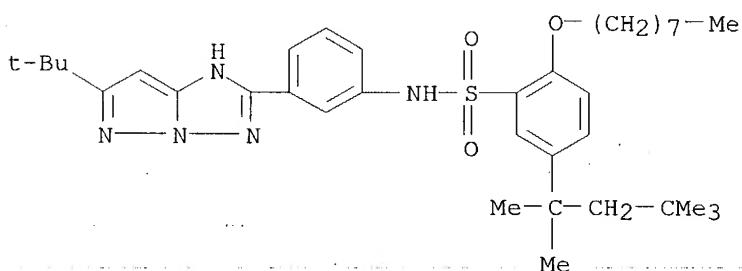
IT 128747-53-5P

RL: PREP (Preparation)

(preparation of, as photog. magenta coupler)

RN 128747-53-5 HCA

CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



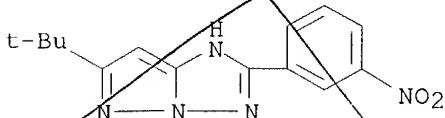
IT 128726-25-0 128726-26-1 128747-53-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, pyrazoloazole magenta photog. coupler from)

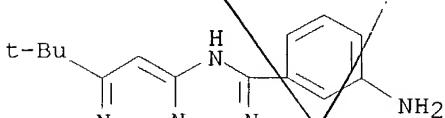
RN 128726-25-0 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-(3-nitrophenyl)-(9CI) (CA INDEX NAME)



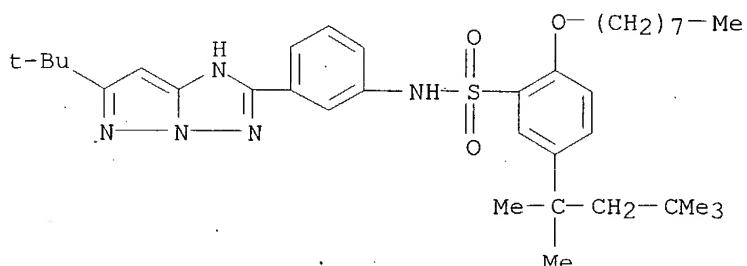
RN 128726-26-1 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-(9CI) (CA INDEX NAME)



RN 128747-53-5 HCA

CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

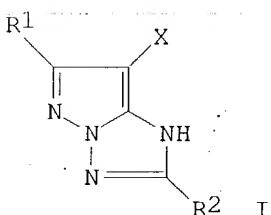


L24 ANSWER 35 OF 38 HCA COPYRIGHT 2004 ACS on STN

112:188881 Silver halide color **photographic** material containing bleach accelerator and **pyrazotriazole** magenta **coupler**

Kawagishi, Toshio; Sakagami, Megumi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01201658 A2 19890814 Heisei, 48 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-25806 19880208.

GI



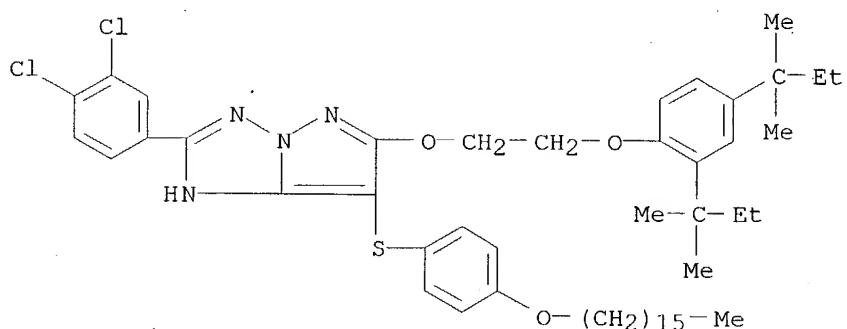
AB The title color **photog.** material contains a bleach accelerator and 1H-pyrazolo[1,5-b]-1,2,4-triazole magenta **coupler** I [R1 = alkyl, alkoxy, aryloxy; R1 = alkyl; R2 = secondary alkyl, tertiary alkyl, aryl, heterocyclyl; when R1 = alkoxy or aryloxy, R2 = alkyl, aryl, or heterocyclyl; X = H, group to be released upon **coupling** reaction with an oxidized aromatic primary amine developer; a dimer may be formed with R1, R2 or X; X = bleach accelerator, or its precursor]. Bleachability and magenta images can be improved.

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

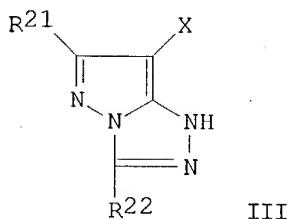
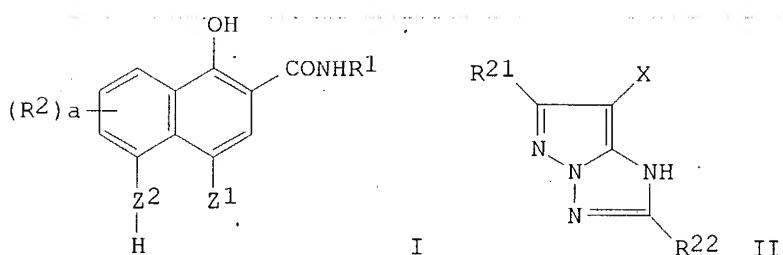
ST **pyrazotriazole** magenta **coupler**; bleach accelerator releasing compd **photog**IT **Photographic** processing
(color, bleach accelerator releasing compound for)IT **Photographic** films
(color, containing **pyrazotriazole** magenta **coupler** and

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]ethoxy]-2-(3,4-dichlorophenyl)-7-[[4-(hexadecyloxy)phenyl]thio]- (9CI) (CA INDEX NAME)



L24 ANSWER 36 OF 38 HCA COPYRIGHT 2004 ACS on STN
 112:129031 Silver halide color **photographic** material containing cyan and magenta **couplers**. Kawagishi, Toshio; Sakagami, Megumi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01167753 A2 19890703 Heisei, 32 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1987-325953 19871223.

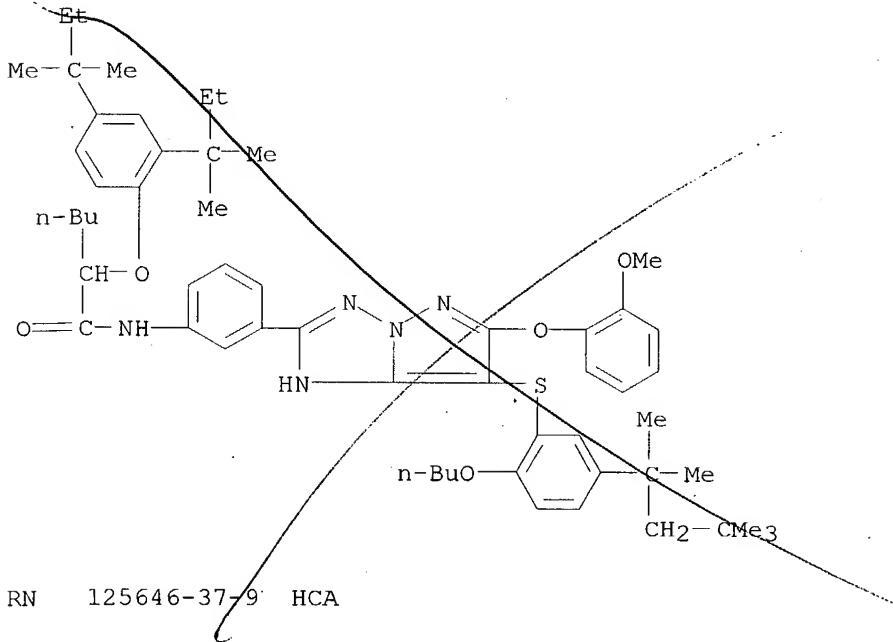
GI



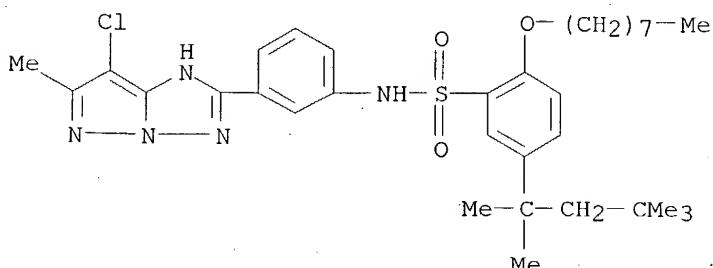
AB The title color **photog.** material contains ≥ 1 naphtholic **coupler** of the structure I [R1 = aliphatic; R2 = substituent; a = 0-3; Z1 = H, **coupling**-releasing group; Z2 = O, S, NR3; R3 = H, organic substituent; R2 and Z2, or Z1 and Z2 may form a ring; a polymer **coupler** may be formed with R1, R2, R3, Z2, or Z1; Z1 \neq a development inhibitor moiety], and ≥ 1 **pyrazolotriazole coupler** of the structure II or III [when R21 = alkyl, R22 = aryl

or heterocycyl; when R21 = alkoxy, aryloxy or heterocyclyoxy, R22 = alkyl, aryl, or heterocyclyl; X = H, a coupling releasing group; a polymer coupler may be formed with R21, R22, or X; X ≠ a development inhibitor moiety]. I is used as a cyan coupler, and II or III used as a magenta coupler. Color reproducibility, sensitivity, and gradation can be improved.

- IC ICM G03C007-34
ICS G03C007-38
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST cyan naphthol coupler; magenta pyrazoloazole coupler; coupler color photog material
IT Photographic couplers (cyan, naphtholic derivs. as, for improved image quality)
IT Photographic couplers (magenta, pyrazolotriazole derivs. as, for improved image quality)
IT 110928-56-8 112232-34-5 115625-86-0 115825-96-2 125630-03-7
RL: TEM (Technical or engineered material use); USES (Uses) (photog. cyan coupler, color material containing pyrazolotriazole-type magenta coupler and, for improved image quality)
IT 120886-16-0 125630-04-8 125630-05-9 125630-06-0
125630-07-1 125646-37-9 125646-38-0
RL: TEM (Technical or engineered material use); USES (Uses) (photog. magenta coupler, color material containing naphtholic cyan coupler and, for improved image quality)
IT 125630-06-0 125646-37-9
RL: TEM (Technical or engineered material use); USES (Uses) (photog. magenta coupler, color material containing naphtholic cyan coupler and, for improved image quality)
RN 125630-06-0 HCA
CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



- L24 ANSWER 37 OF 38 HCA COPYRIGHT 2004 ACS on STN
 110:31337 Silver halide color **photographic** materials containing magenta **couplers**. Kida, Shuji; Nakagawa, Satoshi (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 63153547 A2 19880625 Showa, 15 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-300517 19861217.
- GI For diagram(s), see printed CA Issue.
- AB 1H-Pyrazolo[1,5-b][1,2,4]triazole derivs. substituted at the 2-position by a group I (R1-3 = substituents; m = 0-3) are contained in Ag halide emulsion layers of the **photog.** materials, as magenta **couplers**. These **couplers** provide improved color reproduction and color formation. Thus, **photog.** paper was coated with green-sensitive Ag(Cl,Br) emulsion mixed with di-Bu phthalate-EtOAc emulsion of II (0.15 mol **coupler**/ mol Ag) and other additives. Exposed and processed paper showed high sensitivity, wide gradation, and maximum d. 3.03.
- IC ICM G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **photog** paper magenta color **coupler**
- IT **Photographic couplers**
 (magenta, **pyrazolotriazole** derivs., **photog.** paper containing)
- IT 118188-86-6
 RL: USES (Uses)
 (condensation of, with **aminopyrazole** derivative, **photog.** magenta **coupler** from)
- IT 31230-17-8
 RL: USES (Uses)
 (condensation of, with imidobenzoic acid derivative, **photog.** magenta **coupler** from)
- IT 118188-71-9 118188-72-0 118188-73-1
 118188-74-2 118188-75-3 118188-76-4
 118188-77-5 118188-78-6 118188-79-7
 118188-80-0 118188-81-1 118188-82-2
 118188-83-3 118188-84-4 118222-61-0
 118222-62-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**photog.** magenta **coupler**, **photog.** paper containing)
- IT 118242-42-5P
 RL: TEM (Technical or engineered material use); PREP (Preparation); USES

(Uses)

(photog. magenta coupler, photog. paper containing, preparation of)

IT 118188-89-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and chlorination of, photog. magenta coupler from)

IT 118188-87-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and ring closure of, photog. magenta coupler from)

IT 118188-88-8P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and sulfonylation of, photog. magenta coupler from)

IT 118188-71-9 118188-72-0 118188-73-1

118188-74-2 118188-75-3 118188-76-4

118188-77-5 118188-78-6 118188-79-7

118188-80-0 118188-81-1 118188-82-2

118188-83-3 118188-84-4 118222-61-0

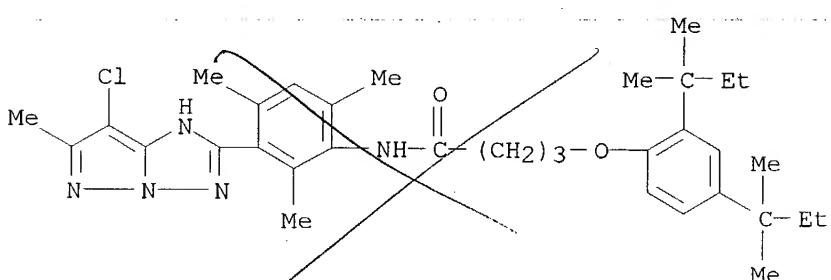
118222-62-1

RL: TEM (Technical or engineered material use); USES (Uses)

(photog. magenta coupler, photog. paper containing)

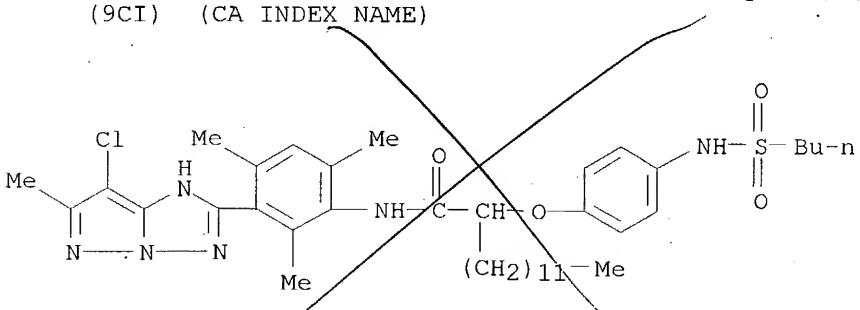
RN 118188-71-9 HCA

CN Butanamide, 4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]- (9CI) (CA INDEX NAME)



RN 118188-72-0 HCA

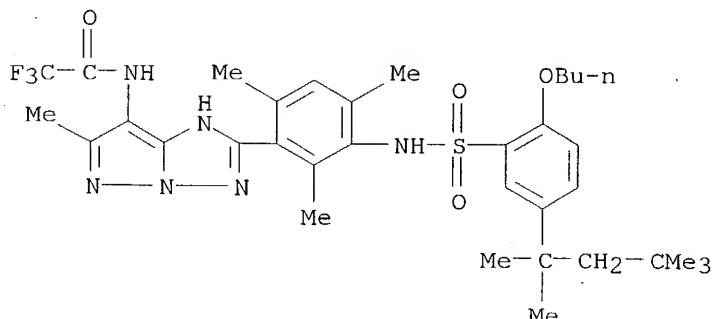
CN Tetradecanamide, 2-[4-[(butylsulfonyl)amino]phenoxy]-N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]- (9CI) (CA INDEX NAME)



RN 118188-73-1 HCA

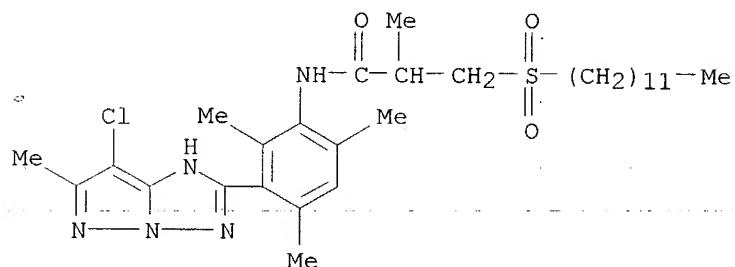
RN 118188-84-4 HCA

CN Acetamide, N-[2-[3-[[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]-2,4,6-trimethylphenyl]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



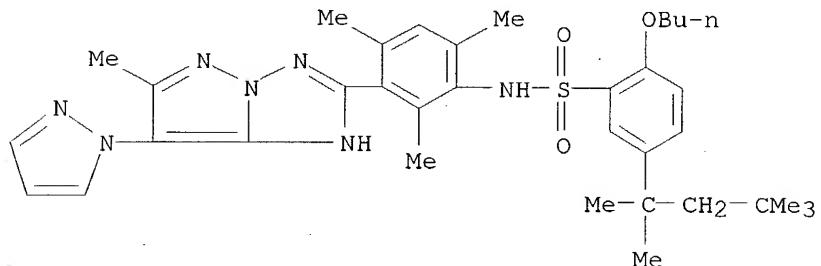
RN 118222-61-0 HCA

CN Propanamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]-3-(dodecylsulfonyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 118222-62-1 HCA

CN Benzenesulfonamide, 2-butoxy-5-(1,1,3,3-tetramethylbutyl)-N-[2,4,6-trimethyl-3-[6-methyl-7-(1H-pyrazol-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



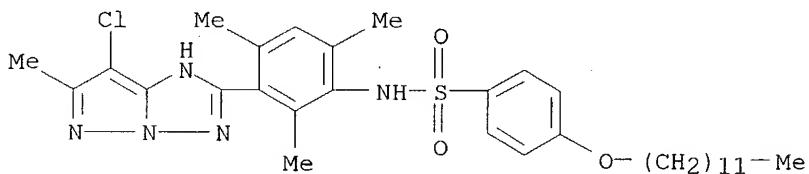
IT 118242-42-5P

RL: TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(photog. magenta coupler, photog. paper containing, preparation of)

RN 118242-42-5 HCA

CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)

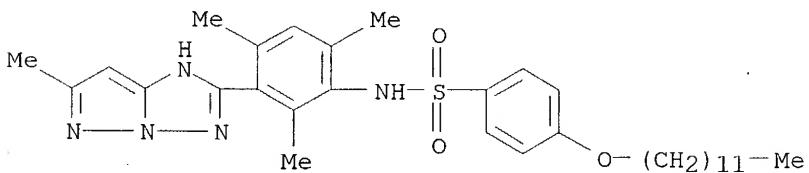


IT 118188-89-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of, photog. magenta **coupler**
from)

RN 118188-89-9 HCA

CN Benzenesulfonamide, 4-(dodecyloxy)-N-[2,4,6-trimethyl-3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)

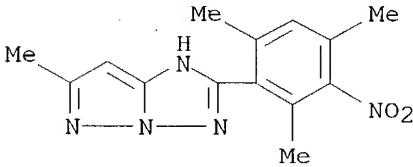


IT 118188-88-8P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sulfonylation of, photog. magenta **coupler**
from)

RN 118188-88-8 HCA

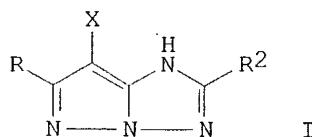
CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-methyl-2-(2,4,6-trimethyl-3-nitrophenyl)- (9CI) (CA INDEX NAME)



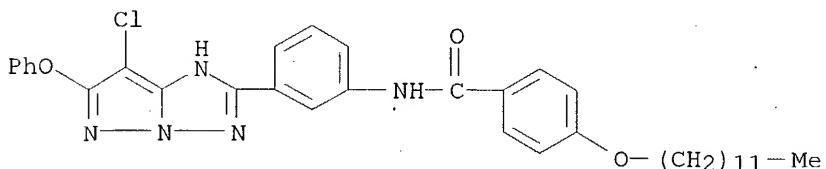
L24 ANSWER 38 OF 38 HCA COPYRIGHT 2004 ACS on STN

109:119537 Color **photographic** imaging method using
pyrazolotriazole-type magenta **couplers**. Sato, Tadahisa;
Sakai, Nobuo; Kamio, Takayoshi (Fuji Photo Film Co., Ltd., Japan). Jpn.
Kokai Tokkyo Koho JP 63041851 A2 19880223 Showa, 27 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-184331 19860807.

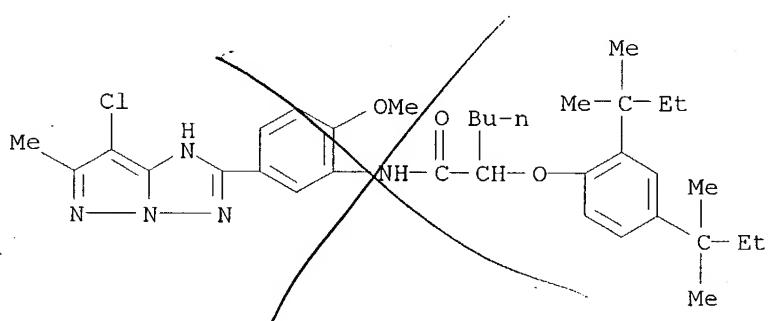
GI



- AB Silver halide **photog.** materials are color-developed with an aromatic primary amine-containing developer solution in the presence of a **pyrazolotriazole** type magenta **coupler** I (R1 = organic moiety having C, O, N, or S bonded to the **pyrazolotriazole** ring; R2 = aryl, heterocyclyl; X = H, substituent released during **coupling** reaction). The use of the above magenta **coupler** gives dye images with high optical d. and high γ -value.
- IC ICM G03C007-30
ICS G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST color **photog** magenta dye image; **coupler photog**
magenta **pyrazolotriazole**
- IT **Photographic couplers**
(magenta, **pyrazolotriazole** derivs. as)
- IT 67-56-1, Methanol, uses and miscellaneous 31230-17-8 **116313-64-5**
116313-65-6 **116313-66-7**
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- IT 116313-68-9P 116313-69-0P **116313-70-3P** 116313-71-4P
116313-72-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of **photog.** magenta **coupler**)
- IT 116313-59-8P 116313-60-1P 116313-61-2P
116313-62-3P 116313-63-4P
RL: PREP (Preparation)
(preparation of, as **photog.** magenta **coupler**)
- IT 116313-64-5 116313-65-6 116313-66-7
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- RN 116313-64-5 HCA
- CN Benzamide, N-[3-(7-chloro-6-phenoxy-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)

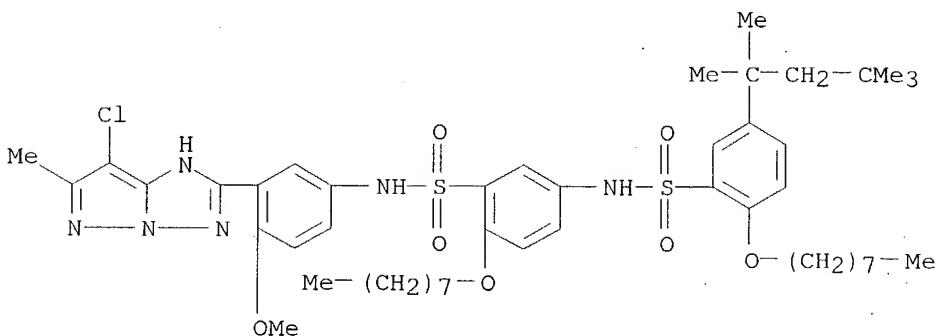


- RN 116313-65-6 HCA
- CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methoxyphenyl]- (9CI) (CA INDEX NAME)



RN 116313-66-7 HCA

CN Benzenesulfonamide, N-[3-[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-4-methoxyphenyl]amino]sulfonyl]-4-(octyloxy)phenyl-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



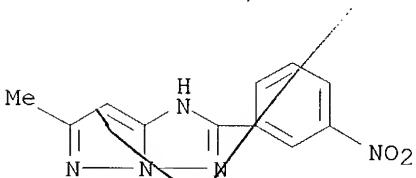
IT 116313-70-3P 116313-71-4P 116313-72-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of photog. magenta coupler)

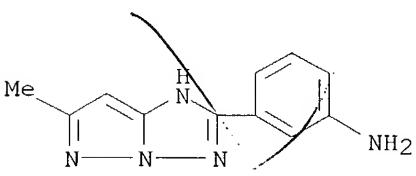
RN 116313-70-3 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-methyl-2-(3-nitrophenyl)-(9CI) (CA INDEX NAME)

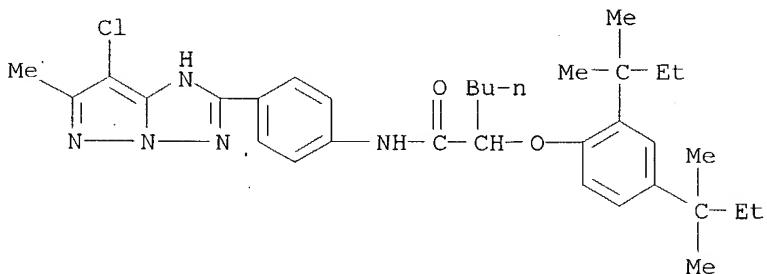


RN 116313-71-4 HCA

CN Benzenamine, 3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-(9CI) (CA INDEX NAME)

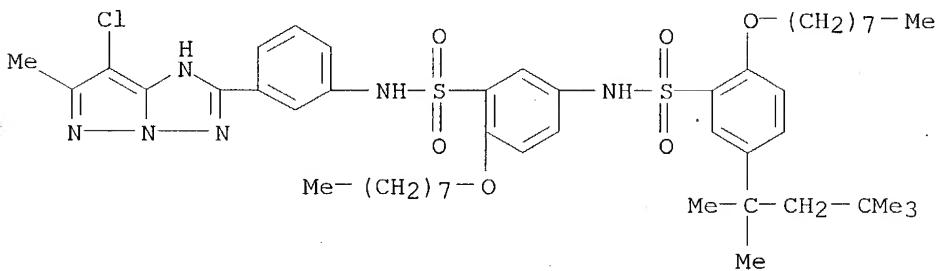


1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



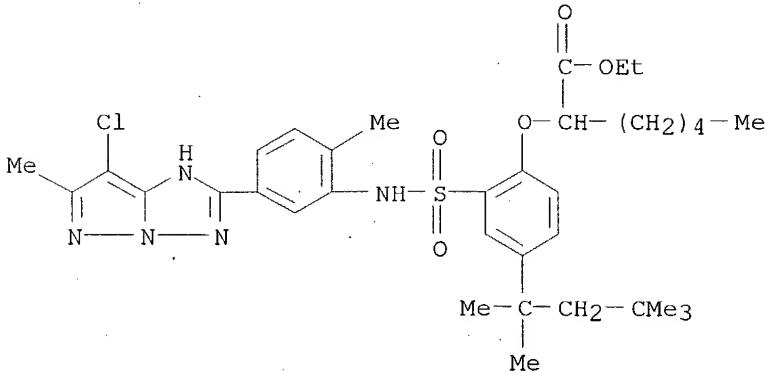
RN 116313-62-3 HCA

CN Benzenesulfonamide, N-[3-[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 116313-63-4 HCA

CN Heptanoic acid, 2-[2-[[5-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



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